

REPORT: COMMITTEE ON CURRICULA AND COURSES
(For consideration by the Faculty Senate at its December 7, 2005 meeting.)

The Committee requests that any department which has a proposal being recommended by the Committee on Curricula and Courses provide a spokesperson to attend the Faculty Senate meeting in which said proposal is to be recommended. Please contact Victor Giurgiutiu (Mechanical Engineering) in advance if errors are noted, either by phone: 777-8018 or e-mail: victorg@sc.edu

1. COLLEGE OF ARTS AND SCIENCES

A. Center for Science Education

New course

SMED 591 Data Analysis for Teachers. [=STAT 591] (3) An introduction to statistics for elementary, middle, and high school teachers. The fundamentals of data collection, descriptive statistics, probability, and inference with special focus on methods of teaching statistical reasoning. For I.M.A./M.A.T. (excluding Mathematics)/M.Ed./M.T. and non-degree credit only.
Also approved to be offered via telecommunications.

B. Department of Languages, Literatures, and Cultures

Change in prerequisites

From: CLAS 321 Sexuality, Gender, and Power in Ancient Rome. [=WOST 321] (3)
(Prereq: CLAS 320)
To: CLAS 321 Sexuality, Gender, and Power in Ancient Rome. [=WOST 321] (3)

From: CPLT 300 Introduction to Comparative Literature. (3) (Prereq: ENGL 101 and 102)
To: CPLT 300 Introduction to Comparative Literature. (3) (Prereq: any 200 level literature course)

C. Program of Marine Science

Change in curriculum, listed in the Web 2005-06 Undergraduate Bulletin

<u>Current</u>	<u>Proposed</u>
Degree Requirements (128 hours)	Degree Requirements (128 hours)
1. General Education Requirements (43-45 hours)	1. General Education Requirements (43-45 hours)

<p>The following courses fulfill some of the general education requirements and must be completed with a grade of C or better for a B.S. degree with a major in marine science: MSCI 101 and 102; mathematics through MATH 142 (Calculus II), two courses in physics (e.g., PHYS 201, 201L and 202, 202L or PHYS 211, 211L and 212, 212L) and chemistry (e.g., CHEM 111, 112), and one course in computer programming (CSCE 102 or higher).</p>	<p>The following courses fulfill some of the general education requirements and must be completed with a grade of C or better for a B.S. degree with a major in marine science: MSCI 101 and 102; mathematics through MATH 142 (Calculus II), STAT 515 two courses in physics (e.g., PHYS 201, 201L and 202, 202L or PHYS 211, 211L and 212, 212L) and chemistry (e.g., CHEM 111, 112), and one course in computer programming (CSCE 102 or higher).</p>
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D. Department of Military Science

New course

ARMY 400 Nurses Summer Training Program Clinical Elective. (3) (Prereq: Completion of the Leadership Development Assessment Course (LDAC), NURS 412 or its equivalent, acceptance into Army ROTC) A 3 week summer nursing experience conducted at an Army Hospital in the US, Europe or Asia that orients the Cadet Nurse to the mission of the US Army Medical Department and its health care delivery system. It provides a minimum of 120 hours of clinical experience to develop nursing, leadership, administrative and interpersonal skills.

E. Department of Political Science

New course

POLI 478 Environmental Policy. (3) Themes in environmental policy in industrialized nations. Analysis of issue framing, the role of public and private tools, and conflicting perspectives. Incorporates analysis of policy process and public management.

F. Department of Statistics

Change in prerequisite and description

From: **STAT 517** Computing in Statistics. (3) (Prereq: STAT 509 or STAT 515 with a grade of C or higher; knowledge of a programming language) Applications of the computer to statistics. Random number generation, efficient design of simulation studies, and advanced statistical computing procedures.

To: **STAT 517** Computing in Statistics. (3) (Prereq: STAT 509 or STAT 515 with a grade of C or higher) An introduction to statistical packages such as R and SAS with special focus on data management and programming skills such as Monte Carlo simulation.

New course

STAT 591 Data Analysis for Teachers. [=SMED 591] (3) An introduction to statistics for elementary, middle, and high school teachers. The fundamentals of data collection, descriptive statistics, probability, and inference with special focus on methods of teaching statistical reasoning. For I.M.A./M.A.T. (excluding Mathematics)/M.Ed./M.T. and non-degree credit only.
Also approved to be offered via telecommunications.

G. Department of Women Studies**Change in prerequisites**

From: WOST 321 Sexuality, Gender, and Power in Ancient Rome. [=CLAS 321] (3)
 (Prereq: WOST 320)
 To: WOST 321 Sexuality, Gender, and Power in Ancient Rome. [=CLAS 321] (3)

2. COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY**A. Electrical Engineering****Change in title and description**

From: ELCT 363 Introduction to Semiconductor Materials. (3) Crystal structures, classical and quantum mechanical models, and properties of pn junctions.
 To: ELCT 363 Introduction to Microelectronics. (3) Basic semiconductor material and device principles. Principles and applications of microelectronics.

Change in title, prerequisite and description

From: ELCT 563 Advanced Semiconductor Materials. (3) (Prereq: ELCT 363) Crystal structures, energy-band theory, and charge-carrier physics.
 To: ELCT 563 Semiconductor Electronic Devices. (3) (Prereq: ELCT 363 or equivalent) Basic semiconductor material properties. Principles and characteristics of semiconductor p-n junction and Schottky diodes, field-effect transistors (JFETs, MESFETs and MOSFETs), and bipolar junction transistors.

New courses

ELCT 566 Semiconductor Optoelectronics. (3) (Prereq: ELCT 363 or equivalent) Basic semiconductor material optical properties. Principles and structures of semiconductor lasers, Light Emitting Diodes, and photodetectors.

ELCT 574 Semiconductor Materials and Device Characterization. (3) (Prereq: ELCT 363 or equivalent) Semiconductor material and device characterization; resistivity, carrier and doping density, contact resistance, Schottky barriers, series resistance, defects, trapped charges, and carrier lifetime.

B. Mechanical Engineering

New course

EMCH 535 Robotics in Mechanical Engineering. (3) (Prereq: EMCH 332) Overview of robotics in practice and research: forward and inverse kinematics, statics and dynamics, trajectory generation, control, vision, and motion planning.

3. COLLEGE OF MASS COMMUNICATIONS AND INFORMATION STUDIES

A. School of Journalism and Mass Communication

New course

JOUR 504 Crisis Communications. (3) (Prereq: JOUR 328 and 436 or consent of instructor) Students will learn unique insight into experiencing and analyzing public relations emergencies impacting businesses or clients. Students learn techniques for insuring positive outcomes when confronting public relations crises.

4. SCHOOL OF MUSIC

Changes in curriculum, listed in the Web 2005-06 Undergraduate Bulletin

<u>CURRENT</u>	<u>PROPOSED</u>
<p>Curricula</p> <p>Major Requirements. Every degree candidate in the school must successfully complete a major program of study that meets the major requirements of the program. A minimum grade of C is required for any course submitted for fulfillment of major requirements; this includes all MUSC and MUED courses.</p> <p>Course requirements in applied music include the following minimum levels of applied study: performance, and jazz studies--four semesters at the lower-division level and four semesters at the upper-division level; music education, theory/composition--four semesters at the lower-division level and two semesters at the upper-division level; B.A.--four semesters at the lower level. The number of required credits in applied music is determined by each degree program.</p>	<p>Curricula</p> <p>No change</p> <p>Course requirements in applied music include the following minimum levels of applied study: Performance and jazz studies – four semesters at the lower-division level and four semesters at the upper-division level; music education, theory/composition--four semesters at the lower division level and two semesters at the upper division level; <u>B.A. – six semesters at the lower level.</u> The number of required credits in applied music is determined by each degree program.</p>

<p><i>Bachelor of Music (Emphases in Music Education-Choral or Music Education-Instrumental)</i></p> <p>(132 hours)</p> <p>3. Music Education Requirements (23 hours)</p> <p>Courses required for choral emphasis Applied music (secondary instrument) (8 hours) MUSC 278, 577 (4 hours) MUED 104P, 359 (4 hours) MUED 335L, 465, 465P, 467, 467P (7 hours)</p> <p>Courses required for instrumental emphasis MUED 155, 156 (4 hours) MUSC 125, 129, MUED 165, 465, 466, or 467 (2 hours) MUED 468, 468P (3 hours) String majors--MUSC 101; MUED 104, 360, 357, 463, 464 (12 hours) Wind majors--MUED 105/106, 360, 357, 358, 460 (12 hours) Percussion majors--MUED 105/106, 357, 358, 460 (11 hours) MUED electives (1-3 hours)</p>	<p><i>Bachelor of Music (Emphases in Music Education-Choral or Music Education-Instrumental)</i></p> <p>(132 hours)</p> <p>3. Music Education Requirements (23 hours)</p> <p>No change</p> <p>Courses required for instrumental emphasis MUED 155, 156 (4 hours) MUSC 125, 129, MUED 165, 465, 466, or 467 (2 hours) String majors – MUSC 101; MUED 104, 360, 357 463, 463P, 464, 464P (14 hours) Wind Majors – MUED 105/106, 360, 357, 358, 460, 468, 468P (15 hours) Percussion majors – MUED 105/106, 357, 358, 460, 468, 468P (14 hours) MUED electives (1-3 hours)</p>
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New courses

MUED 463P Practicum in Methods for String Instruction. (1) (Coreq: MUED 463) Practical application of elementary string methods and techniques in public and community school settings. Not auditable.

MUED 464P Practicum in String and Orchestral Literature for Secondary Schools. (1) (Coreq: MUED 464) Practical application of secondary string methods and materials in public and community school settings. Not auditable.

Change in credit hours

From: MUSC 111 Lower Division Applied Music. (1-2)

To: MUSC 111 Lower Division Applied Music. (1-3)

From: MUSC 311 Upper Division Applied Music. (1-2)

To: MUSC 311 Upper Division Applied Music. (1-3)

Change in title, corequisite, and description

From: MUED 464 String Literature and Practicum. (2) A study of materials for developing the technique and musicianship of string students in

grades 5-12. Activities include conducting appropriate literature in laboratory and school settings.
 To: MUED 464 Orchestras in Secondary Schools. (2) (Coreq: MUED 464P) A study of materials for developing the techniques and musicianship of string students in grades 7-12.

5. REGIONAL CAMPUSES

Palmetto College

New curriculum

<u>Current</u>	<u>Proposed</u>
	<p>BACHELOR OF ARTS IN LIBERAL STUDIES (120 hours)</p> <p>PROGRAM PURPOSE The purpose of the Liberal Studies program is to provide a curriculum responsive to the educational needs of our state. Available to students on USC's regional campuses, this degree provides access to upper-level study in a range of liberal arts disciplines, fostering the ability to think critically, communicate effectively, solve problems, and interpret human experience. Goals of this program are to enhance students' intellectual and creative capacities and broaden their historical, ethical, social, and international perspectives while allowing them some flexibility in designing the upper-level curricula based on previous studies and employment objectives.</p> <p>PROGRAM OBJECTIVES</p> <ul style="list-style-type: none"> • To provide students with broad-based knowledge in the liberal arts that results in their becoming more articulate, analytical, historically informed, and well-rounded • To prepare students to contribute to their work environments and the larger society and to grow personally and professionally throughout their careers • To foster in students analytical and decision-making skills; communication skills; a global perspective; a sense of social responsibility and ethics; and characteristics of leadership • To meet academic needs of students who wish to pursue a baccalaureate degree in Liberal Studies and provide a solid foundation for those preparing to pursue further education • To attract diverse, career-oriented students by making available curricula that correspond to employment opportunities and community needs <p>ADMISSION AND GRADUATION STANDARDS Students may apply to the Liberal Studies Program after completion of at least 45 semester hours of accredited, college-level work. A minimum grade point of 2.0 is required for admission and graduation. During the first semester after the student's admission, a specific Program of Study</p>

	<p>is developed by the student and the student's advisor and approved by the Program Committee. Any changes to the Program of Study must be approved by the advisor and Program Committee. All students must earn at least 30 USC hours after admission to this program. A minimum of 120 semester hours of accredited, college-level work must be presented to earn this degree.</p> <p>CURRICULUM The Bachelor of Arts with a major in Liberal Studies is designed for students who want to pursue liberal studies without a major in a single discipline. No course may count in more than one category.</p> <p>1. GENERAL EDUCATION REQUIREMENTS (41-51 hours)</p> <p>Writing (6) ENGL 101, 102. Must be passed with grade of C or better</p> <p>Foreign Language (0-9) Demonstration of proficiency in one foreign language equivalent to minimal passing grade on exit exam in 122 course</p> <p>Numerical and Analytical Reasoning (6-7) (to be met in one of the following ways) 1) MATH 122 or 141 with either CSCE 101 or STAT 110 or PHIL 110 2) MATH 122 or 141 with a higher level math course such as MATH 170 or 172 3) CSCE 101 and CSCE 102; STAT 110 and STAT 201; or PHIL 110 and PHIL 111</p> <p>Laboratory Sciences (8) Two laboratory courses selected from the following fields: astronomy, biology, chemistry, environmental studies, geology, marine science, physics</p> <p>Liberal Arts (21) Fine Arts (3) History (3) PHIL 102 (3) Social/Behavioral Sciences (3) SPCH 140 (3) Electives (must include two disciplines) (6)</p> <p>2. MAJOR REQUIREMENTS (36 hours)</p> <p>Required Courses</p> <p>All courses must be at the 300-level or above with at least 15 hours at the 400-level or above. All grades must be C or better.</p> <p>The following three (3) courses are required of all majors: PALM 493 South Carolina Studies PALM 494 Internship UNIV P401P Senior Capstone Experience</p>
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	<p>The student's major will be chosen from one of the following three (3) options:</p> <p><i>Arts and Humanities Option</i></p> <p>A minimum of 27 hours from two (2) of the following disciplines: art, English, history, languages, philosophy, religious studies, theatre (27 hours)</p> <p><i>Science and Mathematics Option</i></p> <p>A minimum of 27 hours from two (2) of the following disciplines: astronomy, biology, chemistry, environmental studies, geology, marine science, mathematics, physics, statistics (27 hours)</p> <p><i>Social and Behavioral Sciences Option</i></p> <p>A minimum of 27 hours from two (2) of the following disciplines: anthropology, economics, geography, political science, psychology, sociology (27 hours)</p> <p>3. COGNATE (12 hours)</p> <p>A minimum of 12 hours of coursework at the 300 level or above from one of the following disciplines: anthropology, art, business, criminal justice, dance, economics, education, English, geography, history, languages, mathematics, philosophy, political science, psychology, physical and/or biological sciences, religious studies, social work, sociology, theatre. The cognate cannot be a discipline included in the student's major option. (12 hours)</p> <p>4. ELECTIVES (21-31 hours)</p>
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New courses

PALM 493 South Carolina Studies. (3) (Prereq: Junior standing) Reading and writing about South Carolina from the perspective of multiple disciplines, incorporating elements of the student's major and cognate.

Also approved to be offered via telecommunications.

PALM 494 Palmetto College Internship. (3) (Prereq: Junior standing) Supervised immersion and exploration in a field related to the major, with a career, cultural, or community focus.

Also approved to be offered via telecommunications.