

REPORT: COMMITTEE ON CURRICULA AND COURSES
(For consideration by the Faculty Senate at its October 7, 2009 meeting.)

Per the USC Policies and Procedures Manual - Academic Affairs section ACAF 2.00 and 2.03 Appendices, any department which has a proposal being recommended by the Committee on Curricula and Courses must have a representative in attendance at the Faculty Senate meeting in which said proposal is to be recommended.

Please contact Jennifer Vendemia (Psychology) in advance if errors are noted, either by phone: 777-6738 or e-mail: Vendemia@mailbox.sc.edu .

1. COLLEGE OF ARTS AND SCIENCES

A. Center for Science Education

Change in description

- From: SMED 591 Data Analysis for Teachers. [=STAT 591] (3) 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 nondegree credit.
- To: SMED 591 Data Analysis for Teachers. [=STAT 591] (3) 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 M.A.T. (excluding mathematics)/M.Ed./M.T. and nondegree credit only.

B. Program of African American Studies

New course

- AFRO 353 Introduction to U.S. Racial and Ethnic Politics. [=POLI 353] (3) Survey of theories of the impact of race, ethnicity, and racism on American politics, and analysis of major policies and racial group experience regarding American citizenship.
- AFRO 393 Race and Science Fiction. [=POLI 393] (3) Draws on science fiction to understand the contemporary history of American racial and ethnic politics and to speculate about the significance of race in America's political future.
- AFRO 476 Black Activism. [=POLI 476] (3) Critical review of theories of community organizing, grassroots activism, and social movements, and examination of contemporary forms of black activism.

C. Department of Biological Sciences

Change in credit hours

From: BIOL 510 Invertebrate Zoology. [=MSCI 510] (5)

To: BIOL 510 Invertebrate Zoology. [=MSCI 510] (4)

D. Department of Chemistry and Biochemistry

Change in curriculum. Website 2008-2009 Undergraduate Bulletin – New Degree – Bachelor of Science in Biochemistry and Molecular Biology

<u>Current</u>	<u>Proposed</u>
<p data-bbox="232 737 358 772"><i>Overview</i></p> <p data-bbox="232 814 792 1398">The Department of Chemistry and Biochemistry offers two undergraduate degrees. A general major leads to the Bachelor of Science with a major in chemistry; the intensive major, suggested for those intending to enter the chemical profession, leads to the degree of Bachelor of Science in Chemistry. For both majors a minimum grade of C in Chemistry 111 and 112 is required. The Department of Chemistry and Biochemistry has been approved by the American Chemical Society's (ACS) Committee on Professional Training, and the curriculum for the Bachelor of Science in Chemistry meets ACS requirements.</p> <p data-bbox="232 1583 743 1654">Retention, Progression, and Transfer Standards</p> <ol data-bbox="232 1661 781 1871" style="list-style-type: none"> 1. Chemistry majors may enroll in a chemistry course a maximum of twice to earn the required grade of C or higher. 2. A chemistry major must receive a grade of C or higher in any chemistry course in order for it to be used to satisfy a major 	<p data-bbox="823 779 950 814"><i>Overview</i></p> <p data-bbox="823 852 1385 1507">The Department of Chemistry and Biochemistry offers <u>three</u> undergraduate degrees. A general major leads to the Bachelor of Science with a major in chemistry; the intensive major, suggested for those intending to enter the chemical profession, leads to the degree of Bachelor of Science in Chemistry. <u>The department also offers a Bachelor of Science degree with a major in biochemistry and molecular biology.</u> For <u>all</u> majors a minimum grade of C in Chemistry 111 and 112 is required. The Department of Chemistry and Biochemistry has been approved by the American Chemical Society's (ACS) Committee on Professional Training, and the curriculum for the Bachelor of Science in Chemistry meets ACS requirements.</p> <p data-bbox="823 1583 1333 1654">Retention, Progression, and Transfer Standards</p> <ol data-bbox="823 1692 1349 1871" style="list-style-type: none"> 1. Chemistry majors may enroll in a chemistry course a maximum of twice to earn the required grade of C or higher. <u>Biochemistry and molecular biology majors may enroll in a biology or</u>

<p>requirement.</p> <p>3. Any student applying for transfer to the chemistry major from other programs within the University, or from other accredited colleges and universities, is required to have a minimum overall grade point average of 2.50 on a 4.00 scale.</p>	<p><u>chemistry course a maximum of twice to earn the required grade of C or higher.</u></p> <p>2. A chemistry major must receive a grade of C or higher in any chemistry course in order for it to be used to satisfy a major requirement. <u>A biochemistry and molecular biology major must receive a grade of C or higher in any chemistry or biology course in order for it to be used to satisfy a major requirement.</u></p> <p>3. Any student applying for transfer to the chemistry major from other programs within the University, or from other accredited colleges and universities, is required to have a minimum overall grade point average of 2.50 on a 4.00 scale.</p> <p>4. <u>To be admitted to the biochemistry and molecular biology major, a student must have earned at least 30 semester hours with a minimum 3.25 grade point average on a 4.00 scale. The 30 semester hours must include CHEM 111, CHEM 112, BIOL 101, BIOL 102, and MATH 141, each passed with a grade of C or higher.</u></p>
<p>Degree Requirements</p> <p><i>(128 hours)</i></p>	<p>No change</p>
<p>Bachelor of Science with a Major in Chemistry</p> <p>1. General Education Requirements (43–54 hours)</p> <p>The following courses fulfill some of the general education requirements and some cognates and must be completed for a B.S. degree with a major in chemistry: CHEM 111, 112 or CHEM 141, 142; calculus through MATH 241; CSCE 145 or 206; PHYS 211, 211L and 212, 212L.</p> <p>For an outline of other general education requirements, see "College of Arts and</p>	<p>No change</p>

<p>Sciences."</p> <p>2. Major Requirements (minimum 24 hours)</p> <p>Courses in chemistry numbered 300 level and above to include the following: CHEM 321, 321L, 333, 333L, 334, 334L, 541, 541L or 591, 542, 542L or 592; and at least one course from CHEM 511, 533, 545, 550, 555, 621, 623, 624, 633, and 644.</p> <p>3. Cognates (12 hours), see "College of Arts and Sciences."</p> <p>4. Electives, see "College of Arts and Sciences."</p> <p>Bachelor of Science in Chemistry</p> <p>1. General Education Requirements (43-54 hours)</p> <p>The following courses fulfill some of the general education requirements and some cognates and must be completed for a B.S. in Chemistry degree: CHEM 111, 112 or CHEM 141, 142¹; one math course beyond MATH 241, selected with advisor; PHYS 211, 211L, 212, 212L; CSCE 145 or 206. For an outline of other general education requirements, see "College of Arts and Sciences."</p> <p>2. Major Requirements (34-35 hours)</p> <p>Courses in chemistry numbered 300 level and above to include the following: CHEM 321, 321L, 333, 333L, 334, 334L, 511, 541, 541L or 591, 542, 542L or 592, 550 or 555, 621, 621L, and 3 credits of undergraduate research.</p> <p>3. Cognates, see "College of Arts and Sciences."</p>	
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<p>4. Electives, see "College of Arts and Sciences."</p> <p>¹ CHEM 141, 142 are equivalent to CHEM 111, 112, and 321L.</p> <p>¹ CHEM 141, 142 are equivalent to CHEM 111, 112, and 321L.</p> <p>²Students who transfer into the program after completion of CHEM 331L and 332L may meet the organic chemistry requirements by completing CHEM 334L.</p>	<p>(128 hours)</p> <p><u>Bachelor of Science with a Major in Biochemistry and Molecular Biology</u></p> <p><u>1. General Education Requirements (49-59 hours)</u></p> <p>The following courses fulfill some of the general education requirements and must be completed for a B.S. degree with a major in biochemistry and molecular biology: MATH 141, 142, 241, STAT 201, CSCE 102 or higher, PHYS 211, 211L, 212, 212L. For an outline of other general education requirements, see "College of Arts and Sciences." It is recommended that students complete the foreign language requirement with French, German, Japanese, Russian, or Spanish.</p> <p><u>2. Major Requirements (67 hours)</u></p> <p><u>BIOL 101 and 102 (including lab); BIOL 302, 302L; BIOL 303; 3 hours from BIOL 425, 460, 543, or 620; BIOL 550, 550L; CHEM 111 and 112; CHEM 321, 321L; CHEM 333, 331L; CHEM 334, 332L; CHEM 541, 541L; CHEM 545; CHEM 360; 10 hours from BIOL 399, CHEM 496-499, CHEM 360, BIOL 545 = CHEM 555, BIOL 546 = CHEM 556, BIOL 541L = CHEM 550L; 6 hours 400-600 level electives in Biology or Chemistry.</u></p> <p><u>3. Electives, see "College of Arts and Sciences."</u></p>
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New course

- CHEM 360 Undergraduate Seminar. (1) (Prereq: CHEM 333, BIOL303)
Student seminars and a survey of biochemical and molecular biology research at the University of South Carolina. Required of all biochemistry majors.
- CHEM 619 Special Topics in Inorganic Chemistry. (1-3) (Prereq: Consent of instructor) Current developments in inorganic chemistry. Readings and research on selected topics. Course content varies by title and suffix and will be announced in the schedule of classes. May be repeated for credit.
- CHEM 629 Special Topics in Analytical Chemistry. (1-3) (Prereq: Consent of instructor) Current developments in analytical chemistry. Readings and research on selected topics. Course content varies by title and suffix and will be announced in the schedule of classes. May be repeated for credit.
- CHEM 639 Special Topics in Organic Chemistry. (1-3) (Prereq: Consent of instructor) Current developments in organic chemistry. Readings and research on selected topics. Course content varies by title and suffix and will be announced in the schedule of classes. May be repeated for credit.
- CHEM 649 Special Topics in Physical Chemistry. (1-3) (Prereq: Consent of instructor) Current developments in physical chemistry. Readings and research on selected topics. Course content varies by title and suffix and will be announced in the schedule of classes. May be repeated for credit.

E. Department of Earth and Ocean Sciences**Deletion**

- GEOL 575 Introduction to Groundwater Modeling. (3)
(Note: Effective Fall 2010)

New course

- GEOL 575 Numerical Modeling for Earth Science Applications. (3) (Prereq: MATH 142; MATH 241 recommended) Finite difference and finite element methods for solving the diffusion equation and advection-dispersion equation, with applications in hydrogeology, geophysics, geology, and marine science.
(Note: Effective Spring 2011)

F. Department of History**New course**

HIST 425 Caribbean Race and Slavery, 1500-1900. (3) The roles race and slavery played in shaping Colonial Caribbean History from the pre-Columbian Civilizations to the end of the 19th century.

G. Marine Science Program**Change in credit hours**

From: MSCI 510 Invertebrate Zoology. [=BIOL 510] (5)

To: MSCI 510 Invertebrate Zoology. [=BIOL 510] (4)

H. Department of Political Science**New course**

POLI 353 Introduction to U.S. Racial and Ethnic Politics. [=AFRO 353] (3) Survey of theories of the impact of race, ethnicity, and racism on American politics, and analysis of major policies and racial group experience regarding American citizenship.

POLI 393 Race and Science Fiction. [=AFRO 393] (3) Draws on science fiction to understand the contemporary history of American racial and ethnic politics and to speculate about the significance of race in America's political future.

POLI 476 Black Activism. [=AFRO 476] (3) Critical review of theories of community organizing, grassroots activism, and social movements, and examination of contemporary forms of black activism.

Change in title and description

From: POLI 442 Global Security Policies. (3) Conceptualization of problems of global security. Investigation of global security issues.

To: POLI 442 Globalization and Security. (3) Exploration of the ways in which globalization may impact national and international security.

I. Institute for Southern Studies**New course**

SOST 500 Topics in the American South. (3) Selected topics related to the study of the American South. Course content varies and will be announced in the schedule of classes by suffix and title. May be repeated for credit as topics vary.

J. Department of Statistics**Change in description**

- From: STAT 591 Data Analysis for Teachers. [=SMED 591] (3) 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 nondegree credit.
- To: STAT 591 Data Analysis for Teachers. [=SMED 591] (3) 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 M.A.T. (excluding mathematics)/M.Ed./M.T. and nondegree credit only.

2. REGIONAL CAMPUSES**Existing courses approved to be offered via internet delivery**

- CSC 101 Introduction to Computer Concepts. (3)
- CSC 102 General Applications Programming. (3)