

REPORT: COMMITTEE ON CURRICULA AND COURSES

(For consideration by the Faculty Senate at its April 7, 2004 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 Gary Blanpied (Physics & Astronomy) in advance if errors are noted, either by phone: 777-2599 or e-mail: blanpied@mail.psc.sc.edu

1. COLLEGE OF EDUCATION

A. Department of Instruction and Teacher Education

Change in crosslisting

From: EDSE 472 Directed Teaching in High School (Business Education). (12)
 To: EDSE 472 Directed Teaching in High School (Business Education) [=TSTM 472] (12)

Change in designator for crosslisting

From: EDSE 508 Teaching Middle and High School (Business Education). [=AIME 508] (3)
 To: EDSE 508 Teaching Middle and High School (Business Education). [=TSTM 508] (3)

From: EDSE 528 Study of the Teaching of Business Education in the Secondary School [=OADM 528] (3)

To: EDSE 528 Study of the Teaching of Business Education in the Secondary School [=TSTM 528] (3)

2. COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

A. Department of Civil and Environmental Engineering

Change in prerequisites

From: ECIV 210 Dynamics. (3) (Prereq: ECIV 200)
 To: ECIV 210 Dynamics. (3) (Prereq: Grade of "C" or better in ECIV 200)

From: ECIV 220 Mechanics of Solids. (3) (Prereq: ECIV 200, MATH 241)
 To: ECIV 220 Mechanics of Solids. (3) (Prereq: Math 241 and Grade of "C" or better in ECIV 200)

From: ECIV 303 Civil Engineering Materials. (3) (Prereq: ECIV 220)
 To: ECIV 303 Civil Engineering Materials. (3) (Prereq: Grade of "C" or better in ECIV 220)

From: ECIV 320 Structural Analysis I. (3) (Prereq: ECIV 220)
 To: ECIV 320 Structural Analysis I. (3) (Prereq: Grade of “C” or better in ECIV 220)

From: ECIV 330 Intro to Geotechnical Engineering. (3) (Prereq: ECIV 220)
 To: ECIV 330 Intro to Geotechnical Engineering. (3) (Prereq: Grade of “C” or better in ECIV 220)

From: ECIV 360 Fluid Mechanics. (3) (Prereq: ECIV 210)
 To: ECIV 360 Fluid Mechanics. (3) (Prereq: Grade of “C” or better in ECIV 210)

B. Department of Computer Science and Engineering

Change in prerequisite

From: CSCE 491 Capstone Computer Systems Project. (3) (Prereq: CSCE 240, 311)
 To: CSCE 491 Capstone Computer Systems Project. (3) (Prereq: CSCE 311, 317)

New courses

CSCE 317 Computer Systems Engineering. (3) (Prereq: CSCE 240, MATH 242, STAT 509) System-level modeling and evaluation of computer systems: requirements elicitation and specification, architectural design, reliability and performance evaluation, Markov modeling, life-cycle cost analysis, project management.

CSCE 416 Introduction to Computer Networks. (3) (Prereq: CSCE 311) Concepts and components of computer networks and the Internet; network applications; network protocol stack.

CSCE 569 Parallel Computing. (3) (Prereq: Knowledge of programming in a high-level language; MATH 526 or 544) Architecture and interconnection of parallel computers; parallel programming models and applications; issues in high performance computing; programming of parallel computers.

Change in Computer Engineering curriculum, printed Undergraduate Bulletin 2003-2004, page 139

<u>Current</u>	<u>Proposed</u>
Bachelor of Science in Engineering--Major in Computer Engineering	Bachelor of Science in Engineering--Major in Computer Engineering
<i>(122 hours)</i>	<i>(122 hours)</i>
ENGL 101, 102, and either 462 or 463 (9 hours) SPCH 140 (3 hours) Liberal Arts (9 hours)	ENGL 101, 102, and either 462 or 463 (9 hours) SPCH 140 (3 hours) Liberal Arts (9 hours)

<p>MATH 141, 142, 241, 242, 374 (17 hours) Mathematics elective (3 hours) STAT 509 (3 hours) CHEM 111 (4 hours) PHYS 211, 211L, 212, 212L (8 hours) CSCE 145, 146, 211, 212, 240, 245, 311, 313, 350, 355, 390, 491, 492 (<u>39 hours</u>) ELCT 102, 221, 222, <u>321</u>, 371 (15 hours) Major Electives (<u>12 hours</u>)</p> <p>Notes: 1. The liberal arts courses must include at least one history course, one fine arts course, and one social science course. The department maintains a list of approved humanities and social science electives. 2. The math elective is satisfied with MATH 526 or 527 or 544 or CSCE 561. Other courses in linear algebra or numerical analysis may be substituted with permission of the department. 3. The department maintains a list of approved major electives for the computer engineering degree. Currently, CSCE 330, ELCT 331, and most CSCE courses numbered 510 and higher are approved. CSCE 561 satisfies the requirement as either a major elective or as a mathematics elective.</p>	<p>MATH 141, 142, 241, 242, 374 (17 hours) Mathematics elective (3 hours) STAT 509 (3 hours) CHEM 111 (4 hours) PHYS 211, 211L, 212, 212L (8 hours) CSCE 145, 146, 211, 212, 240, 245, 311, 313, <u>317</u>, 350, 355, 390, <u>416</u>, 491, 492 (<u>45 hours</u>) ELCT 102, 221, 222, 371 (12 hours) Major Electives (<u>9 hours</u>)</p> <p>Notes: 1. The liberal arts courses must include at least one history course, one fine arts course, and one social science course. The department maintains a list of approved humanities and social science electives. 2. The math elective is satisfied with MATH 526 or 527 or 544 or CSCE 561. Other courses in linear algebra or numerical analysis may be substituted with permission of the department. 3. The department maintains a list of approved major electives for the computer engineering degree. Currently, CSCE 330, ELCT 331, <u>ELCT 321</u> and most CSCE courses numbered 510 and higher are approved. CSCE 561 satisfies the requirement as either a major elective or as a mathematics elective.</p>
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Change in Computer Information Systems curriculum, printed Undergraduate Bulletin 2003-2004, page 139

<u>Current</u>	<u>Proposed</u>
<p>Bachelor of Science--Major in Computer Information Systems</p> <p>(120 hours)</p> <p>ENGL 101, 102, and either 462 or 463 (9 hours) SPCH 140 (3 hours) Liberal Arts (18 hours) MATH 141, 142, 374 (11 hours) STAT 509 (3 hours) Laboratory sciences (8 hours including two labs) MGSC 390, 490, 590, and two of 494, 591, 594 (15 hours) ACCT 222 (3 hours) ECON 224 (3 hours) CSCE 145, 146, 205, 212, 240, 245, 311, 330, 350, 390, 492, 520 (<u>36 hours</u>)</p>	<p>Bachelor of Science--Major in Computer Information Systems</p> <p>(120 hours)</p> <p>ENGL 101, 102, and either 462 or 463 (9 hours) SPCH 140 (3 hours) Liberal Arts (18 hours) MATH 141, 142, 374 (11 hours) STAT 509 (3 hours) Laboratory sciences (8 hours including two labs) MGSC 390, 490, 590, and two of 494, 591, 594 (15 hours) <u>ACCT 222</u> (3 hours) ECON 224 (3 hours) CSCE 145, 146, 205, 212, 240, 245, 311, 330, 350, 390, <u>416</u>, 492, 520 (<u>39 hours</u>)</p>

<p>Major elective (CSCE course numbered above 500) (3 hours) Free electives (<u>8 hours</u>)</p> <p>Notes:</p> <p>1. The liberal arts courses must include at least one history course, one fine arts course, and one social science course.</p> <p>2. Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required. Up to 6 hours of foreign language courses may be counted toward the liberal arts requirement.</p>	<p>Major elective (CSCE course numbered above 500) (3 hours) Free electives (<u>5 hours</u>)</p> <p>Notes:</p> <p>1. The liberal arts courses must include at least one history course, one fine arts course, and one social science course.</p> <p>2. Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required. Up to 6 hours of foreign language courses may be counted toward the liberal arts requirement.</p>
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**Change in Computer Science curriculum, printed Undergraduate Bulletin
2003-2004, page 140**

<u>Current</u>	<u>Proposed</u>
<p>Bachelor of Science in Computer Science</p> <p>(120 hours)</p> <p>ENGL 101, 102, and either 462 or 463 (9 hours) SPCH 140 (3 hours) Liberal Arts (18 hours) MATH 141, 142, 241, 374, 526 (18 hours) STAT 509 (3 hours) PHYS 211, 211L, 212, 212L (8 hours) Laboratory science (4 hours) CSCE 145, 146, 211, 212, 240, 245, 311, 330, 350, 355, 390, 492 (<u>36 hours</u>) Major electives (CSCE courses numbered above 500) (<u>12 hours</u>) Application area (9 hours)</p> <p>Notes:</p> <p>1. The liberal arts courses must include at least one history course, one fine arts course, and one social science course.</p> <p>2. Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required. Up to 6 hours of foreign language courses may be counted toward the liberal arts requirement.</p> <p>3. The laboratory science course must be selected</p>	<p>Bachelor of Science in Computer Science</p> <p>(120 hours)</p> <p>ENGL 101, 102, and either 462 or 463 (9 hours) SPCH 140 (3 hours) Liberal Arts (18 hours) MATH 141, 142, 241, 374, 526 (18 hours) STAT 509 (3 hours) PHYS 211, 211L, 212, and 212L (8 hours) Laboratory science (4 hours) CSCE 145, 146, 211, 212, 240, 245, 311, 330, 350, 355, 390, <u>416</u>, 492 (<u>39 hours</u>) Major electives (<u>CSCE 317</u> or CSCE courses numbered above 500) (<u>9 hours</u>) Application area (9 hours)</p> <p>Notes:</p> <p>1. The liberal arts courses must include at least one history course, one fine arts course, and one social science course.</p> <p>2. Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required. Up to 6 hours of foreign language courses may be counted toward the liberal arts requirement.</p> <p>3. The laboratory science course must be selected</p>

<i>from the following list: BIOL 101, CHEM 111, GEOL 201, GEOL 202, MSCI 111.</i>	<i>from the following list: BIOL 101, CHEM 111, GEOL 201, GEOL 202, MSCI 111.</i>
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C. Department of Mechanical Engineering

New course

EMCH 441 Automotive System Fundamentals. (3) (Prereq: EMCH 260, 394)
Automotive engineering systems, descriptions and associated operating and design principles. Past, present, and future automotive systems and components.

3. COLLEGE OF HOSPITALITY, RETAIL, AND SPORT MANAGEMENT

A. Program of Technology Support and Training Management

Change in designators

From: AIME 508 Teaching Middle and High School (Business Education). [=EDSE 508] (3)

To: TSTM 508 Teaching Middle and High School (Business Education). [=EDSE 508] (3)

From: AIME 528 Study of the Teaching of Business Education in the Secondary School. [=EDSE 528] (3)

To: TSTM 528 Study of the Teaching of Business Education in the Secondary School. [=EDSE 528] (3)

Change in designator and prerequisite

From: AIME 342 Business Communications. (3) (Prereq: AIME 264 or AIME 343)

To: TSTM 342 Business Communications. (3) (Prereq: TSTM 264 or equivalent)

Change in title, crosslisting and prerequisites

From: TSTM 472 Directed Teaching in High School (Business Education) – Internship B. (12) (Prereq: Successful completion of Internship A)

To: TSTM 472 Directed Teaching in High School (Business Education). [=EDSE 472] (12)

4. COLLEGE OF LIBERAL ARTS

A. Department of Anthropology

New course

ANTH 513 Anthropological Ethnobotany. (3) Survey of how each anthropological subfield studies the interrelationships between plants and peoples. Application of methods, including interviewing and data analysis.

B. Department of Criminology and Criminal Justice

Change in title and description

- From: CRJU 585 Crime and Public Policy. (3) Public policy responses to crime, their formation, and their impact on both crime and criminal justice system.
- To: CRJU 585 Selected Topics in Crime and Public Policy. (3) Public policy responses to crime, their formation, and their impact on both crime and criminal justice systems. Individual topics to be announced with suffix and title. May be repeated with consent of advisor.

C. Department of Languages, Literatures and Cultures

New course

- ASLG 121 Elementary American Sign Language (ASL). (4) Introduction to basic vocabulary and common grammar structures of ASL. Focus on communication and familiarization with aspects of Deaf culture. This course does not satisfy the foreign language requirement of any college.
- ASLG 122 Basic Proficiency in American Sign Language (ASL). (4) Practice and further development in the language and culture of the American Deaf community. This course does not satisfy the foreign language requirement of any college.
- CLAS 240 Sport and Combat in the Ancient World. (3) This course is designed to introduce students to the importance of competition in the military and private spheres of the Greco-Roman world, a dominant legacy of antiquity.

5. COLLEGE OF MASS COMMUNICATIONS AND INFORMATION STUDIES

A. Department of Journalism and Mass Communications

Deletions

- JOUR 333L Copy Editing Laboratory. (1) (Coreq: JOUR 333)
- JOUR 335L Reporting Laboratory. (1) (Coreq: JOUR 335)

Change in credit hours and corequisites

- From: JOUR 333 Copy Editing. (2) (Prereq: JOUR 201 and JOUR 202; Coreq: 333L)
- To: JOUR 333 Copy Editing. (3) (Prereq: JOUR 201 and 202)
- From: JOUR 335 Reporting. (2) (Prereq: JOUR 201 and JOUR 202; Coreq: 335L)
- To: JOUR 335 Reporting. (3) (Prereq: JOUR 201 and 202)

Change in prerequisites

- From: JOUR 438 Mass Media PC Graphics Applications. (3) (Prereq: CSCE 101 and upper-division standing)
 To: JOUR 438 Mass Media PC Graphics Applications. (3)
- From: JOUR 529 Informational Graphics for the Mass Media. (3) (Prereq: JOUR 364)
 To: JOUR 529 Informational Graphics for the Mass Media. (3) (Prereq: JOUR 364 and STAT 110)

Change in crosslisting

- From: JOUR 564 Graphic Design. [=ARTS 564] (3)
 To: JOUR 564 Graphic Design. (3)

Change in curriculum labeling

Last spring proposal approved Faculty Senate as a new “sequence” when in fact it should have been labeled as a new “major.”

<u>Current</u>	<u>Proposed</u>
<p>1. General Education Requirements (90 hours) ADVERTISING AND PUBLIC RELATIONS</p>	<p>2. General Education Requirements (90 hours) ADVERTISING PUBLIC RELATIONS, VISUAL COMMUNICATIONS</p> <p>Under Degree Requirements, Section 3. Additional Required Courses after the section on Print Journalism add: Visual Communications JOUR 364, 337, 438, 515, 529, 564 plus 9 elective hours of electives in journalism and mass communications.</p>

6. ARNOLD SCHOOL OF PUBLIC HEALTH

A. Department of Health Promotion, Education, and Behavior

Change in course number

- From: HPEB 221 Personal and Community Health. (3)
 To: HPEB 321 Personal and Community Health. (3)

7. COLLEGE OF SCIENCE AND MATHEMATICS

New courses

- SMED 586 Energy, Motion and Matter. (3) (Prereq: Introductory level courses in life, earth and physical science or permission of instructor)
 Integrated study of the earth’s atmosphere for pre-service and in-service middle school teachers combining concepts from earth, life and physical science leading to an understanding of the interaction of all systems.

SMED 587 Interdependence of Living Systems. (3) (Prereq: Introductory level courses in life, earth and physical science or permission of instructor) Integrated study of the biotic and abiotic environments combining life, earth and physical science concepts to understand relationships in living systems. For pre-service and in-service middle school teachers.

SMED 588 Origin and Evolution of Living and Non-Living Systems. (3) (Prereq: Introductory-level courses in life, earth and physical sciences or permission of instructor) Study of the earth system for pre-service and in-service middle school teachers, with emphasis on the origin, evolution and interactions of the sub-systems of the earth system.

A. Department of Biological Sciences

Change in prerequisite

From: BIOL 671 Plant Responses to the Environment. (3) (Prereq: BIOL 302 and either BIOL 425 or BIOL 523)
 To: BIOL 671 Plant Responses to the Environment. (3) (Prereq: BIOL 302)

B. Department of Mathematics

Change in description

From: MATH 141 Calculus I. (4) Limits, continuity; derivatives, chain rule, rates of change, curve sketching, max-min problems; definite integral, antiderivatives, and the Fundamental Theorem.
 To: MATH 141 Calculus I. (4) Four classroom hours and one laboratory hour per week. Functions, limits, derivatives, introduction to integrals, the Fundamental Theorem of Calculus, applications of derivatives and integrals.

From: MATH 142 Calculus II. (4) Techniques of integration, exponential, and inverse trigonometric functions; numerical methods, and applications of the integral; sequences, power, and Taylor series.
 To: MATH 142 Calculus II. (4) Four classroom hours and one laboratory hour per week. Methods of integration, sequences and series, approximations.

C. Department of Statistics

Change in curriculum, printed Undergraduate Bulletin 2003-04, pages 352-

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<u>Current</u>	<u>Proposed</u>
<p>1. General Education Requirements (44-53 hours)</p> <p>The following courses may fulfill some of the general education or cognate requirements and must be passed with a C or higher (in at most two attempts) for a B.S. degree in statistics: MATH 141, 142, 241, 526 (or 544), 550; CSCE 145 or 206; ENGL 462 or 463. For an outline of other general education requirements, see "College of Science and Mathematics."</p> <p>2. Major Requirements</p> <p>General Major (28 hours) Theory and Models: STAT 511, 512, and 513 Methods and Computation: One of STAT 509* or 515* and both of 516 and 517 Advanced Applications: STAT 590 and three STAT electives numbered 500* or above</p> <p>Major with Emphasis in Actuarial Mathematics and Statistics (58-59 hours) Theory and Models: STAT 511, 512, and 513 Methods and Computation: One of STAT 509* or 515* and both of 516 and 517 Advanced Applications: STAT 510, 520, 590, and one STAT elective numbered 500* or above Cognate in Mathematics: MATH 241, 526 or 544, 550, plus 3 credit hours chosen from MATH 554 or 570 Minor in Risk Management and Insurance: ACCT 222, ECON 224, FINA 363 {=ECON 363}, 3 credit hours chosen from FINA 341 or FINA 444, separate from 3 credit hours chosen from FINA 342, 443, 444, or 445, plus 3 additional credit hours chosen from FINA 342, 346, 443, 444, 445, MGSC 392, 393, 520 {=STAT 520}*, 594, ECON 420, 594, or BADM 499</p> <p>Intensive Major (37 hours) Same as the general major plus MATH 554 and two additional electives selected from STAT courses numbered 500* and above, MATH 527, MATH 555, MATH 570, MATH 574, or MATH 575</p> <p>*Major credit will be given for only one of STAT 509 or 515; For an emphasis in actuarial mathematics and statistics, STAT 520 {=MGSC 520} must be taken as part of the STAT major and</p>	<p>1. General Education Requirements (41-50 hours)</p> <p>The following courses may fulfill some of the general education or cognate requirements and must be passed with a C or higher (in at most two attempts) for a B.S. degree in statistics: MATH 141, 142, 241, 526 (or 544); CSCE 145 or 206; ENGL 462 or 463. For an outline of other general education requirements, see "College of Science and Mathematics."</p> <p>2. Major Requirements</p> <p>General Major (28 hours) Theory and Models: STAT 511, 512, and 513 Methods and Computation: One of STAT 509* or 515* and both of 516 and 517 Advanced Applications: STAT 590 and three STAT electives numbered 500* or above</p> <p>Major with Emphasis in Actuarial Mathematics and Statistics (58-59 hours) Theory and Models: STAT 511, 512, and 513 Methods and Computation: One of STAT 509* or 515* and both of 516 and 517 Advanced Applications: STAT 510, 520, 590, and one STAT elective numbered 500* or above Cognate in Mathematics: MATH 241, 526 or 544, plus 6 credit hours chosen from MATH 550, 554 and 570 Minor in Risk Management and Insurance: ACCT 222, ECON 224, FINA 363 {=ECON 363}, 3 credit hours chosen from FINA 341 or FINA 444, separate from 3 credit hours chosen from FINA 442, 443, 444, or 445, plus 3 additional credit hours chosen from FINA 346, 442, 443, 444, 445, MGSC 392, 393, 594, ECON 420, 594, or BADM 499</p> <p>Intensive Major (37 hours) Same as the general major plus MATH 550, 554 and one additional elective selected from STAT courses numbered 500* and above, MATH 527, 555, 570, or 574</p> <p>*Major credit will be given for only one of STAT 509 or 515.</p>

may not be used for the minor in risk management and insurance.	
3. Cognate or Minor (12-18 hours), see "College of Science and Mathematics"	3. Cognate or Minor (12-18 hours), see "College of Science and Mathematics"
4. Electives (20-44 hours), see "College of Science and Mathematics"	4. Electives (23-47 hours), see "College of Science and Mathematics"

8. EXPERIMENTAL COURSES: For the Senate's information only.

COLLEGE OF ENGINEERING

ECIV 539X Experimental Methods in Geotechnical Engineering. (3) Advanced experimental methods; review of transducers, signal conditioning, and data acquisition. Methods to control testing, analyze errors and improve data interpretation. Lab and field testing by students.

COLLEGE OF SCIENCE AND MATHEMATICS

Department of Mathematics

MATH 250X Vector Analysis I. (3) (Prereq: qualification through placement or a grade of C or better in MATH 142) Vector algebra, geometry of three-dimensional space; polar, cylindrical, and spherical coordinate systems; partial differentiation, the derivative as a matrix transformation, and flow lines of a vector field, max-min theory; multiple and iterated integration. (This course is intended for mathematics majors, and other students intending to take MATH 550; the treatment will be more sophisticated than is offered in MATH 241.)

9. MOTION From Committee on Curricula and Courses

Motion to delete all courses below that were approved only for the May Semester and not approved for teaching as a regular course. Thus if departments would like to offer them, they need to be resubmitted as normal courses and then it could still be offered during May Semester or other times:

MGMT 372M	MGSC 493M	PHIL 333M	SPAN 125M
HADM 500M	THSP 470M	ANTH 306M	THSP 330M
PHIL 329M	PHIL 335M	RELG 357M	RELG 503M
SOST 410M	SPAN 225M	MATH 400M	EDEC 510M
MATH 500M	SOST 411M	THSP 501M	THSP 574M
RUSS 105M	JOUR 553M	JOUR 494M	AFRO 312M
ENGL 417M	GINT 450M	SPAN 105M	HIST 293M
HIST 411M	HIST 470M	PHIL 334M	