

REPORT: COMMITTEE ON CURRICULA AND COURSES
(For consideration by the Faculty Senate at its April 29, 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. MOORE SCHOOL BUSINESS

Change in prerequisite, corequisite and description

From: ECON 692 Quantitative Methods I. [=MGSC 692] (3) (Prereq or coreq: mathematics and computer portion of Fundamental Business Skills or equivalent) Introduction to business and economic applications of calculus, probability, and computer science important to graduate study in economics and business administration.

To: ECON 692 Quantitative Methods I. [=MGSC 692] (3) Probability and statistics necessary for graduate study in economics and business administration; estimation, hypothesis testing, regression, analysis of variance, and nonparametric methods.

From: MGSC 692 Quantitative Methods I. [=ECON 692] (3) (Prereq or coreq: MGSC 498 or equivalent) Topics in probability and statistics necessary for graduate study in economics and business administration; estimation, hypothesis testing, regression, analysis of variance, and nonparametric methods.

To: MGSC 692 Quantitative Methods I. [=ECON 692] (3) Probability and statistics necessary for graduate study in economics and business administration; estimation, hypothesis testing, regression, analysis of variance, and nonparametric methods.

2. COLLEGE OF EDUCATION

Department of Educational Leadership and Policies

Change in title and designator

From: EDLP 625 The School Curriculum. (3)

To: EDCS 625 Solving Practical Problems in the School Curriculum. (3) Note: For Graduate Students Only. (Do not put in Undergraduate Bulletin.)

3. COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

Department of Computer Science and Engineering

Change in title and description

- From: CSCE 313 Embedded Systems Laboratory. (3) (Prereq: CSCE 211, 212) Design and implementation of microprocessor-based systems; assembly-language programming.
- To: CSCE 313 Embedded Systems. (3) (Prereq: CSCE 211, 212) Fundamentals of embedded systems: hardware components, software components, hardware/software interface design, and hardware/software co-design.

4. COLLEGE OF HOSPITALITY, RETAIL, AND SPORT MANAGEMENT

Department of Hotel, Restaurant, & Tourism

New courses

- HRTM 518 Training and Development in the Hospitality Industry. (3) Effective methods for conducting, costing, and evaluating training and development procedures for hospitality supervisors and managers.
- HRTM 597 Global Travel and Tourism. (3) (Prereq: HRTM 280) Study of the economic, social, cultural, political, and environmental considerations of international tourism management and development.

5. COLLEGE OF LIBERAL ARTS

A. Department of Anthropology

New course

- ANTH 581 Globalization and Cultural Questions. [=GEOG 581] (3) This course examines cultural understandings of and responses to globalization, examining topics such as its history and theories, migration, economic integration and inequality, identify, social movements, and the environment.

B. Department of Art

New courses

- MART 553 Documentary Production. (3) (Prereq: MART 210, 371) Theory and practice of documentary media production.

Change in title, prerequisite and description

- From: MART 521 Advanced Scripting. (3) (Prereq: MART 321 or consent of instructor) Elements of style and construction. Professional script formats and dialogue for visual and aural media. Emphasis on film and dramatic styles.

- To: MART 521 Screenwriting. (3) (Prereq: MART 110, 321) Elements of style and construction of script formats with emphasis on film and dramatic styles.
- From: MART 542 Fundamentals of Sound Use for Media. [=MUSC 566] (3) (Prereq: MART 541 or consent of instructor) Music for use in media; midi applications and synchronization methods using time code; direct-to hard-disc tapeless audio recording software.
- To: MART 542 Principles of Sound Use for Media. (3) (Prereq: MART 341 or consent of instructor) Audio for media production; midi applications and synchronization methods using time code; digital audio software.
- From: MART 562 Photography for Non-Print Media Formats. (3) (Prereq: MART 262 and MART 341 or equivalent experience) Photographic applications in various media forms, multi-image production and special processes; titling, and other specialized subjects.
- To: MART 562 Advanced Photography Color Processes. (3) (Prereq: MART 262 and 561) Alternative and digital color processes using 35mm and large format equipment, non-traditional photo methods, and digital applications.
- From: MART 571 Video Production I. (3) (Prereq: MART 262, 270, 341) Preproduction, production and real-time editing; corporate/business applications. Studio and field production experience.
- To: MART 571 Multi-camera Video Production. (3) (Prereq: MART 210, 371, 341 or consent of instructor) Theory and practice of studio video production, editing and webcasting.
- From: MART 572 Video Production II. (3) (Prereq: MART 571) Electronic field production: preproduction, production and post-production through online editing; non-broadcast formats and styles.
- To: MART 572 Single Camera Video Production. (3) (Prereq: MART 210, 371, 341 or consent of instructor) Theory and practice of electronic field production and digital postproduction.

Change in title and prerequisite

- From: MART 551 16mm. Filmmaking I. (3) (Prereq: MART 262, 270, 341, or consent of instructor)
- To: MART 551 16 mm. Filmmaking. (3) (Prereq: MART 210, 371, 341 or consent of instructor)

Change in title, number, prerequisite and description

- From: MART 663 Multimedia Production. (3) Presentations and application of multimedia programmers and the integration of media forms.

To: MART 581 Interactive Computer Media Arts. (3) (Prereq: MART 380 or consent of instructor) Theory and practice of the creative and development processes of fixed media – CD ROM, DVD and kiosks.

Change in number, prerequisite and description

From: MART 657 Animation. (3) (Prereq: consent of instructor) A study of 16mm film animation as a media art form. Students will produce 16mm animated film on professional 16mm equipment.

To: MART 583 Animation. (3) (Prereq: MART 210 and 371) A study of animation as a media art form. Students will create animations using traditional or digital technologies.

C. Department of Criminology and Criminal Justice

New course

CRJU 577 Law and Criminal Justice Policy. (3) (Prereq: Criminal Courts and Criminal Law) Examines the law's impact on contemporary criminal justice polices. Specific focus will be on the origins of criminal statutes and their application to corrections and the courts.

D. Department of Geography

New course

GEOG 581 Globalization and Cultural Questions. [=ANTH 581] (3) This course examines cultural understandings of and responses to globalization, examining topics such as its history and theories, migration, economic integration and inequality, identify, social movements, and the environment.

Deletions

GEOG 210 Introduction to Human Geography. (3)
GEOG 314 Geography of Transportation. (3)
GEOG 337 Maps in Human Affairs. (3)
GEOG 377 Geography of Recreation and Sport. (3)
GEOG 500 Source Materials in Geography. (3)
GEOG 509 Industrial Location. (3)
GEOG 512 Advanced Cultural Geography. (3)
GEOG 514 Geography of Ports and Shipping. (3)
GEOG 520 Advanced Study in Regional Geography. (3)
GEOG 542 Field Methods in Geographic Inquiry. (3)
GEOG 543 Computer Mapping. (3)
GEOG 548 Landscape Ecology. (3)
GEOG 555 Analytical Cartography. (3)

Change in title and description

From: GEOG 103 Introduction to Geography. (3) A survey of the principles and

methods of geographic inquiry. Not required for the geography major.

To: GEOG 103 Introduction to Human Geography. (3) A survey of the basic principles of human geography.

Change in course number

From: GEOG 200 Introduction to Physical Geography. (3)

To: GEOG 104 Introduction to Physical Geography. (3)

Change in curriculum, printed Undergraduate Bulletin 2003-2004, pages 211-212

<u>Current</u>	<u>Proposed</u>
<p>1. General Education Requirements (53-65 hours)</p> <p>For a general outline, see “College of Liberal Arts.”</p> <p>For the B.S. degree, students must take at least 14 credit hours from an approved combination of MATH (141 and above), STAT (201 and above), CSCE (102 and above) courses to satisfy the Mathematics/ Analytic Reasoning requirement</p> <p>2. Major Requirements (32-35 hours)</p> <p>All majors must complete at least 32 hours of geography courses, including the core requirements of 9 hours: GEOG 200 (3 hours) GEOG 210 (3 hours) GEOG 495 (3 hours)</p> <p>All majors must complete enough additional hours in one of the following tracks to bring them to the required 32-35 hour total, with at least two courses at the 500 level (excluding GEOG 595). A minimum grade of C is required for all courses used to fulfill major requirements.</p> <p>Physical/Environmental Geography GEOG 201, 202, and 343 (11 hours); at least three additional courses selected from GEOG 309, 346, 347, 348, 370, 371, 430, 516, 530, 545, 546, 547, 548, 566, 567, 568, 569, 570, 571, 573 (9 –12 hours); and at least one course from Geographic Techniques (3 hours).</p>	<p>1. General Education Requirements (53-65 hours)</p> <p>For a general outline, see “College of Liberal Arts.”</p> <p>For the B.S. degree, students must take at least 15 credit hours from an approved combination of MATH (141 and above), STAT (201 and above), CSCE (102 and above) courses to satisfy the Mathematics/Analytic Reasoning requirement</p> <p>2. Major Requirements (32-35 hours)</p> <p>All majors must complete at least 32 hours of geography courses, including the core requirements of 9 hours: GEOG. 200 (3 hours) GEOG. 210 (3 hours) GEOG. 495 (3 hours)</p> <p>All majors must complete enough additional hours in one of the following tracks to bring them to the required 32-35 hour total, with at least two courses at the 500 level (excluding GEOG 595). A minimum grade of C is required for all courses used to fulfill major requirements.</p> <p>Physical/Environmental Geography GEOG 201, 202, and 343 (11 hours); at least three additional courses selected from GEOG 309, 346, 347, 348, 370, 371, 430, 516, 530, 545, 546, 547, 548, 566, 567, 568, 569, 570, 571, 573 (9 –12 hours); and at least one course from Geographic Information Sciences at the 200-level or above (3 hours).</p>

<p>Human/Economic Geography GEOG 211 or 212 (3 hours); a course in regional geography (3 hours); at least five additional courses selected from GEOG 312, 314, 324, 333, 337, 344, 370, 377, 378, 420, 509, 511, 512, 515, 520, 544, 595, (15 hours); and at least one course from Geographic Techniques (3 hours).</p> <p>Geographic Techniques GEOG 341, 345, 363, 531 (12 hours); at least three additional courses selected from GEOG 541, 543, 551, 554, 555, 562, 563, 564 (9 hours); and one non-techniques geography course above Geog 210 (3-4 hours).</p> <p>3. General Geography A course in regional geography (3 hours); a course from the Geographic Techniques (3 hours); and six other courses at the 200-level or above (18-23 hours).</p> <p>4. Cognate or minor see “College of Liberal Arts” (12-24 hours)</p> <p>5. Electives see “College of Liberal Arts” (0-24 hours)</p>	<p>Human/Economic Geography GEOG 211 or 212 (3 hours); a course in regional geography (3 hours); at least five additional courses selected from GEOG 312, 314, 324, 333, 337, 344, 370, 377, 378, 420, 509, 511, 512, 515, 520, 544, 595, (15 hours); and at least one course from Geographic Information Sciences at the 200-level or above (3 hours).</p> <p>Geographic Information Sciences (GISc) GEOG 341, 345, 363, 531 (12 hours); at least three additional courses selected from GEOG 541, 543, 551, 554, 555, 562, 563, 564 (9 hours); and one non-GISc course at the 200-level or above (3-4 hours).</p> <p>3. General Geography A course in regional geography (3 hours); a course from Geographic Information Sciences (3 hours); and six other courses. All must be at the 200-level or above (18-23 hours).</p> <p>3. Cognate or minor see “College of Liberal Arts” (12-24 hours)</p> <p>4. Electives see “College of Liberal Arts” (0-24 hours)</p>
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E. Department of Political Science

Deletions

POLI 501	Contemporary Issues in International Relations. (3)
POLI 515	Analysis of International Systems. (3)
POLI 531	International Relations of Europe. (3)
POLI 534	IR of South Asia. (3)
POLI 535	IR of Southeast Asia. (3)
POLI 585	Politics and Government of the Indian Subcontinent. (3)
POLI 586	Politics and Government of Southeast Asia. (3)
POLI 589	Politics and governments of Britain and the Commonwealth. (3)

POLI 670 Problems in Public Administration. (3 per semester; 12 maximum)

Change in course number

From: POLI 517 Theories of War in International Relations. (3)
To: POLI 417 Theories of War in International Relations. (3)

From: POLI 550 Constitutional Law. (3)
To: POLI 450 Constitutional Law. (3)

From: POLI 551 Constitutional Law. (3)
To: POLI 451 Constitutional Law. (3)

From: POLI 553 Regulatory Policies. (3)
To: POLI 373 Regulatory Policies. (3)

From: POLI 565 Psychology and Politics. (3)
To: POLI 465 Psychology and Politics. (3)

From: POLI 580 Politics and Government of Europe. (3)
To: POLI 481 Politics and Government of Europe. (3)

Change in course number and title

From: POLI 571 Public Financial Administration. (3)
To: POLI 371 Politics of Taxing and Spending. (3)

F. Department of Sociology

Change in course number, and prerequisites

From: SOCY 496 Sociological Theory. (3) Theoretical perspectives on society and social behavior.
To: SOCY 560 Sociological Theory. (3) (Prereq: SOCY 300-level or higher course or consent of instructor) Theoretical perspectives on society and social behavior.

Change in course number, credit hours, prerequisites and description

From: SOCY 497 Sociological Research Methods. (4) (Prereq: SOCY 220 or consent of instructor. Critical analysis of major methods used in the conduct of social science general problems of research design. Two lecture hours and two laboratory hours per week.
To: SOCY 561 Sociological Research Methods. (3) Prereq: SOCY 220 and 300 level or higher or consent of instructor. Methodological approaches to sociological inquiry.

6. COLLEGE OF MASS COMMUNICATIONS AND INFORMATION STUDIES

Department of Journalism and Mass Communications

New course

JOUR 571 Faith, Values and the Mass Media. (3) (Prereq: JOUR 202 and Upper division or consent of instructor) Faith and values influence the media. An examination of the influence, why it happens, and of religious diversity and the increase public presence of religions including Hinduism and Islam.

7. ARNOLD SCHOOL OF PUBLIC HEALTH

A. Department of Health Promotion, Education, and Behavior

Change in course number

From: HPEB 235 First Aid and Emergency Preparedness. (3)

To: HPEP 335 First Aid and Emergency Preparedness. (3)

B. Department of Health Services Policy and Management

New course

HSPM 500 Introduction to Healthcare Management & Organization. (3)
The objective of this course is to provide students an introduction to health services management, management techniques, managerial roles and functions in health care. Through the use of presentations, guest speakers, site visits, case studies, and short assignments, students will develop an understanding of the management issues, tasks, techniques, roles, and functions of health care managers.

8. COLLEGE OF SCIENCE AND MATHEMATICS

A. Department of Chemistry and Biochemistry

New course

CHEM 401 Industrial Chemistry Capstone Experience. (3) (Prereq: senior standing) Prepares students for future roles in chemical industry or graduate school and provides career-enhancing interpersonal skills including team-building, public speaking, resume preparation, and interviewing.

B. Department of Geological Sciences

Change in title and description

From: GEOL 650 Geochemical Applications of Electron Microprobe and X-ray

- Analysis. (4) (Prereq: junior standing; CHEM 111 or equivalent or consent of instructor) Theory and application of X-ray fluorescence spectrometry, X-ray diffraction, and the electron microprobe to problems in geochemistry and materials analysis. Two lecture and six laboratory hours per week.
- To: GEOL 650 Electron Microscopy and Microanalysis. (4) (Prereq: CHEM 111 or equivalent or consent of instructor) SEM, ESEM, TEM and EMPA, WDS quantitative analysis, EDS semi-quantitative analysis, EBSD, methods of sample preparation, and applications in varieties of disciplines. Two lecture and three laboratory hours per week.

C. Program of Marine Science

Change in curriculum, printed Undergraduate Bulletin 2003-04, pages 336-

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<u>Current</u>	<u>Proposed</u>
<p>2. Major Requirements (36 hours)</p> <p>Approved courses in marine science and cognate subjects (including MSCI 311 and 312 and one hour of MSCI 505)</p> <p>A maximum of 10 semester hours of a combination of independent study (e.g., MSCI 399, SCCC 499, BIOL 399), seminar (e.g., SCCC 390-398, BIOL 599, BIOL 645), and undergraduate research (e.g., MSCI 496, 497, 498, 499) courses may count in the 36 hours of major credit required for the Marine Science major. Senior Seminar (MSCI 505) is included in these 10 hours.</p>	<p>2. Major Requirements (36 hours)</p> <p>Approved courses in marine science and cognate subjects (including MSCI 311, MSCI 312, MSCI 460 and one hour of MSCI 505)</p> <p>A maximum of 10 semester hours of a combination of independent study (e.g., MSCI 399, SCCC 499, BIOL 399), seminar (e.g., SCCC 390-398, BIOL 599, BIOL 645), and undergraduate research (e.g., MSCI 496, 497, 498, 499) courses may count in the 36 hours of major credit required for the Marine Science major. Senior Seminar (MSCI 505) is included in these 10 hours.</p>
<p>3. Cognates, see "Major Requirements"</p>	<p>3. Cognates, see "Major Requirements"</p>
<p>4. Electives, see "College of Science and Mathematics"</p> <p>Upon completion of the sophomore year, students will select an area of specialization consistent with their interests. Specialization may be directed toward an interdisciplinary area of study in the marine sciences, such as coastal resource management, or chosen from among the more traditional disciplines such as biology, chemistry, geography, geology, or physics. Each student will plan an individual program in consultation with a faculty advisor.</p>	<p>4. Electives, see "College of Science and Mathematics"</p> <p>Upon completion of the sophomore year, students will select an area of specialization consistent with their interests. Specialization may be directed toward an interdisciplinary area of study in the marine sciences, such as coastal resource management, or chosen from among the more traditional disciplines such as biology, chemistry, geography, geology, or physics. Each student will plan an individual program in consultation with a faculty advisor.</p>
<p>Suggested Program of Study</p>	<p>Suggested Program of Study</p>

<p>Freshman Year MSCI 101, 102 (4) (4) hours ENGL 101, 102 (3) (3) hours MATH 115, 141, 142 (4) (4) hours CHEM 111, 112 with labs (4) (4) hours Total: (15) (15) hours</p> <p>Sophomore Year MSCI 311, 312 (4) (4) hours PHYS 201, 201L, 202, 202L (3+1) (3+1) hours, or PHYS 211, 211L, 212, 212L Foreign Language 121, 122 (4) (3) hours</p>	<p>Freshman Year MSCI 101, 102 (4) (4) hours ENGL 101, 102 (3) (3) hours MATH 115, 141, 142 (4) (4) hours CHEM 111, 112 with labs (4) (4) hours Total: (15) (15) hours</p> <p>Sophomore Year MSCI 311, 312 (4) (4) hours</p> <p>MSCI 460 (Maymester of Sophomore Year) PHYS 201, 201L, 202, 202L (3+1) (3+1) hours, or PHYS 211, 211L, 212, 212L Foreign Language 121, 122 (4) (3) hours</p>
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D. Department of Mathematics

New courses

MATH 523 Mathematical Modeling of Population Biology. (3) (Prereq: MATH 142, BIOL3 301 or MSCI 311 recommended) Applications of differential and difference equations and linear algebra modeling the dynamics of populations, with emphasis on stability and oscillation. Critical analysis of current publications with computer simulation of models.

E. Department of Physics & Astronomy

Change in credit hours

From: PHYS 504 Electromagnetic Theory. (3) (Prereq: PHYS 207 and 503)
To: PHYS 504 Electromagnetic Theory (4) (Prereq: PHYS 207 and 503)

Change in credit hours and description

From: PHYS 503 Mechanics. (3) (Prereq: PHYS 206, MATH 242 or 520) Classical mechanics of particles, systems, and rigid bodies; discussion and application of Lagrange's equations.
To: PHYS 503 Mechanics. (4) (Prereq: PHYS 206, MATH 242 or 520) Classical mechanics of particles, systems, and rigid bodies; discussion and application of Lagrange's equations, introduction to Hamiltonian formulation of mechanics.

Change in curriculum, printed Undergraduate Bulletin 2003-04, pages 348-349

<u>Current</u>	<u>Proposed</u>
Degree Requirements	Degree Requirements
<i>Bachelor of Science with a Major in Physics</i>	<i>Bachelor of Science with a Major in Physics</i>

<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 major in physics: PHYS 206, 207, 208, 211L, 212L; MATH 141, 142, 241, and 242; and two math courses 500 level and above, selected with advisor; CHEM 111 and 112; CSCS 145. A grade of C or higher is required in all physics, mathematics, and engineering courses.</p> <p>For an outline of other general education requirements, see "College of Science and Mathematics."</p> <p>2. Major Requirements</p> <p>Emphasis (25-26 hours)</p> <p>Courses in physics, to include the following: PHYS 307, 308, 309, 501, 502, 503, 504, and 506 (22 hours)</p> <p>One course in experimental physics (e.g., 509, 511, 514, 531, or 532) (3-4 hours)</p> <p>Intensive Major (34-36 hours)</p> <p>Courses in physics, to include the following: PHYS 307, 308, 309, 501, 502, 503, 504, 505, and 506 (25 hours)</p> <p>Three physics electives numbered 500 or above, to include at least two courses in experimental physics (e.g., 509, 510, 511, 514, 531, or 532) (9-11 hours)</p> <p>Applied Emphasis (Engineering Physics)</p> <p><i>Computer Option (48-49 hours)</i></p> <p>PHYS 307, 308, 309, 311, 502, 503, 504, 506, 509, and one courses chosen from PHYS 501, 505, 511, 512, 514.</p> <p>CSCE 146, 212, either 211 and 313 or 245 and 311, and one course numbered 491 or higher. ECON 421 (may be used for Group IV)</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 major in physics: PHYS 206, 207, 208, 211L, 212L; MATH 141, 142, 241, and 242; and two math courses 500 level and above, selected with advisor; CHEM 111 and 112; CSCE 145. A grade of C or higher is required in all physics, mathematics, and engineering courses.</p> <p>For an outline of other general education requirements, see "College of Science and Mathematics."</p> <p>2. Major Requirements</p> <p>General Major (32-34 hours)</p> <p>Courses in physics, to include the following: PHYS 307, 308, 309, 501, 502, 503, 504, and 506 (24 hours)</p> <p>Two courses in experimental physics (e.g., 509, 510, 511, 512, 514, 531, or 532) (6-8 hours)</p> <p>Intensive Major (36-38 hours)</p> <p>Courses in physics, to include the following: PHYS 307, 308, 309, 501, 502, 503, 504, and 506 (24 hours)</p> <p><u>Four</u> physics electives numbered 500 or above, to include at least two courses in experimental physics (e.g., 509, 510, 511, 512, 514, 531, or 532) (12-14 hours)</p> <p>Applied Major (Engineering Physics)</p> <p><i>Computer Option (50-51 hours)</i></p> <p>PHYS 307, 308, 309, 311, 502, 503, 504, 506, 509, and one course chosen from PHYS 501, 511, 512, 514.</p> <p>CSCE 146, 212, either 211 and 313 or 245 and 311, and one course numbered 491 or higher. ECON 421 (may be used for Group IV)</p>
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<p><i>Electrical Option (52-54 hours)</i></p> <p>PHYS 307, 308, 309, 311, 502, 503, 504, 506, and two courses chosen from PHYS 501, 505, 509, 511, 512, 514 ELCT 102, 201, 221, 222, 371, 301 CSCE 211 ECON 421 (may be used for group IV)</p> <p><i>Mechanical Option (46-48 hours)</i></p> <p>PHYS 307, 308, 309, 311, 502, 503, 504, and three courses chosen from PHYS 501, 505, 506, 509, 511, 512, 514 EMCH 200, 260, 290, 360, 327, 507, 508 ECON 421 (may be used for group IV)</p> <p>3. Cognates</p> <p>The required mathematics courses satisfy the cognate requirement.</p> <p>4. Electives, see "College of Science and Mathematics"</p>	<p><i>Electrical Option (<u>54-56</u> hours)</i></p> <p>PHYS 307, 308, 309, 311, 502, 503, 504, 506, and two courses chosen from PHYS 501, 509, 511, 512, 514 ELCT 102, 201, 221, 222, 371, 301 CSCE 211 ECON 421 (may be used for group IV)</p> <p><i>Mechanical Option (<u>54-57</u> hours)</i></p> <p>PHYS 307, 308, 309, 311, 502, 503, 504, and three courses chosen from PHYS 501, 506, 509, 511, 512, 514 EMCH 200, 260, 290, 360, 327, 507, 508 ECON 421 (may be used for group IV)</p> <p>3. Cognates</p> <p>The required mathematics courses satisfy the cognate requirement.</p> <p>4. Electives, see "College of Science and Mathematics"</p>
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9. LIBRARIES

New course

LIBR 100

Information Literacy. (1) Introduction to methods and ethics of information research, with emphasis on analyzing and defining information needs and resources; creating and refining search strategies; evaluating resources; and synthesizing and citing information. Admission restricted to undergraduates.