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THE MARINE SCIENCE MAJOR

The major in Marine Science integrates the study of Biology, Chemistry, Geology, Physics and Mathematics and applies these to the marine environment. Major courses are selected from Marine Science, Biology, Chemistry, Computer Science, Geography, Geology, Mathematics, Statistics, or Physics. Students are encouraged to select an area of emphasis in marine biology, coastal geology, marine chemistry, atmosphere/ocean dynamics, or marine analytical technology. Lecture, laboratory, and field experiences are integrated to provide a well-rounded scientific program. The facilities available for Marine Science majors include a lecture and laboratory complex, a computer research lab, ocean-going and estuarine research vessels, and a full complement of oceanographic sampling equipment. Laboratories and research projects are conducted at various coastal habitats, including Waties Island, a barrier island, marsh and upland complex owned by the University. Marine science graduates are employed as marine and environmental researchers for government agencies, universities, and private industry; as marine and environmental educators; as high school and middle school science teachers; and in the fields of marine and environmental management and policy. Outstanding students are encouraged to pursue graduate study.

EDUCATIONAL OBJECTIVES

Students who graduate with a B. S. in Marine Science should be able to:

1. Explain the principles, concepts, applications, and inter-relations of biology, chemistry, geology, physics, and mathematics, as they apply to the marine environment.
2. Use the scientific method to describe, analyze, and solve scientific problems involving marine science and related fields.
3. Exhibit proficiency in the use of technology, critical thinking, and quantitative tools used in marine science applications.
4. Successfully pursue entry-level jobs or enter graduate programs in various scientific fields.
5. Interact and communicate effectively with peers, mentors, and the larger community.
# Marine Science Advisement Record

## Student Information

<table>
<thead>
<tr>
<th>Students Name:</th>
<th>Minor(s):</th>
<th>Academic/Career Plan</th>
<th>Advisor Initials</th>
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<td>Area of Emphasis:</td>
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<td>Recommended Upper Level Electives:</td>
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<td>MSCI Advisor:</td>
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Final responsibility for satisfying degree requirements as outlined in the University catalog rests with the student. - Read and Understood: Date: __________

## Course

<table>
<thead>
<tr>
<th>I. Core Curriculum</th>
<th>II. Foundation Courses</th>
<th>III. Major Requirements</th>
<th>IV. Electives (To Achieve At Least 120 Credits)</th>
<th>Total MSCI Credits</th>
<th>Total Upper Level Credits</th>
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<tr>
<td>Effective Communication (ENGL 101 and other ENGL 102 or 211)</td>
<td>MSCI 111*, 111L*</td>
<td>MSCI 301</td>
<td>MSCI 301L</td>
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<td>Humanistic Concepts (Choose one course from two of the three disciplines in the following list: ENGL 206, 207, 208, Hist 101, 102, 202, Phil 101, 102)</td>
<td>MSCI 302</td>
<td>MSCI 302L</td>
<td>MSCI 304</td>
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<td>Foreign Language (FLAN 130 or higher, or 110-120, or 111-130, or 120-130)</td>
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<td>Global Awareness (Choose one of ECON 159, ENGL 277, GEOG 121, HIST 111, 112, Honors 101, POLI 101, RELG 103, or approved Study Abroad Course)</td>
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<td>Creative Expression (Choose one of ARTS 105, 106, 108, 112, ENGL 201, MUS 150, THEA 101, 201)</td>
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<td>Human Health &amp; Behavior (Choose one of ECON 110, EXSS 121, HPRO 101, ISEM 120, PSYC 101, SOC 101)</td>
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<td>Structure &amp; Development of the United States (Choose one of HIST 201 or POLI 201)</td>
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**Recommended:** C+ or better is required. 
**Core requirements for Mathematical Concepts and Scientific Concepts:** *Required for first semester freshmen

(Revised 09/22/2010)

**Final Graduation Check:** Total Credits: _______ Final GPA: _______ Advisor Graduation Approval: __________ Date: _______
**FACULTY AND STAFF**

**Dr. Daniel Abel** (Professor, Academic Advisor) has research interests in the fields of shark biology and environmental science. His interests also include innovative techniques for teaching critical thinking skills. He is the co-author of the textbooks Environmental Issues: An Introduction to Sustainability and Issues in Oceanography; is director of the CCU Campus and Community Sustainability Initiative, and is a Senior Fellow with the U.S. Partnership for Education for Sustainable Development. Dr. Abel's office is located in the Coastal Science Center (CSCC) and his office phone number is 843-349-2257 (email: dabel@coastal.edu).

**Dr. Erin Burge** (Associate Professor of Marine Science, Academic Advisor) is a molecular marine biologist who has investigated numerous topics, including host-pathogen interactions between striped bass and mycobacteria, shrimp immune gene expression, ecotoxicology in the mummichog, and the environmental immunology of oysters. His teaching and research focus on molecular mechanisms of immunity and physiological adaptation to pathogens and environmental stressors in fish, crustaceans, and mollusks. Dr. Burge's office is located in the Coastal Science Center (CSCC) and his office phone number is 843-349-6491 (e-mail: eбурге@coastal.edu).

**Dr. Diane Fribance** (Assistant Professor of Marine Science, Academic Advisor) received a B.A. in Computer Science from Williams College in 2003, and has a Masters and a Ph.D. in Oceanography from the University of Connecticut. She was the recipient of a National Research Council fellowship and spent two years working for the Naval Research Laboratory at Stennis Space Center in Mississippi. Her research focuses on the physics of the coastal oceans, including estuarine health and circulation, effects of hurricanes on coastal transport, and the connections between seafloor topography and mixing rates.

**Dr. Paul Gayes** (Palmetto Professor of Marine Science and Geology, Academic Advisor) is a coastal oceanographer and is active in studies of the evolution of coastal systems on a range of time and spatial scales. He is Director of Coastal Carolina’s Center for Marine and Wetland Studies. He is currently involved in numerous frameworks for geologic studies, investigations of the behavior and impacts of nourished beaches, study of nearshore hardbottom habitats and inner shelf resources and relative sea level change. Present study areas include the beaches and inner shelf along the east coast. Dr. Gayes’ office is in the Burroughs and Chapin Center for Marine and Wetland Studies (BCMW), which is located in the Atlantic Center. His office phone is 843-349-4015 (email: pтgayes@coastal.edu).

**Dr. Craig Gilman** (Associate Professor, Academic Advisor) has research interests that lie in the interdisciplinary field of atmosphere/ocean dynamics and satellite oceanography. Several of his recent research projects encompass Gulf Stream dynamics, hurricane formation, and impacts of El Nino. Dr. Gilman's office is located in the Coastal Science Center (CSCC) and his office phone number is 843-349-2228 (email: gilmаn@coastal.edu).

**Dr. Jane Guentzel** (Department Chair, Professor, Academic Advisor) is a marine and environmental chemist whose research focuses on the biogeochemistry of mercury and other trace elements in aquatic systems; the influence of atmospheric deposition and transport on the cycling of mercury and trace elements in these systems; the use of near-neutral electrolyzed water (EOW) solutions and as alternatives to traditional fungicides in pre-harvest agricultural/growing operations; and post-harvest food safety applications using near neutral EOW for the control of bacteria on fruits, vegetables and row crops Dr. Guentzel's office is
Dr. Juliana Harding (Assistant Professor, Academic Advisor) is a marine biologist with interests in biology and ecology of invasive species, sclerochronology and scleroarchaeology, restoration and conservation ecology, larval biology and culture, molluscan ecology, population dynamics, and aquaculture. Her research focuses on marine community ecology. Dr. Harding’s office is located in the Coastal Science Center, room 151-C. Her office phone number is 843-349-2983 (email: jharding@coastal.edu).

Dr. Jenna Hill (Assistant Professor, Academic Advisor) is a marine and coastal geologist with interests in fluvial, coastal and continental shelf morphology, sedimentation, and stratigraphy. Her research focuses on the influences of climate, sea level and tectonics on landscape evolution. Dr. Hill’s office is located in the Burroughs and Chapin Center for Marine and Wetland Studies (BCMw), which is located in the Atlantic Center. Her office phone number is 843-349-4027 (email: jchill@coastal.edu).

Dr. Louis Keiner (Associate Professor) has research interests that lie in the areas of satellite remote sensing and coastal ocean dynamics. He is currently involved in projects that deal with the analysis of oceanic chlorophyll concentrations and sea surface temperatures off the South Carolina coast, as well as the use of neural network algorithms to analyze satellite data, and the current dynamics of coastal inlets. Dr. Keiner’s office is located in the Cathcart Smith Science Building (SCIE) room 118B and his office phone number is 843-349-2226 (email: lkeiner@coastal.edu).

Dr. Eric Koepfler (Professor, Academic Advisor) specializes in the field of microbiology ecology. He has conducted research in both benthic and pelagic systems ranging from freshwater (James River in Virginia) to hypersaline benthic (Laguna Madre in Texas) environments. His specific research interest is in the examination of microbial involvement in carbon production, food web dynamics, and biogeochemical nutrient cycling. He is presently researching microbial community response to maturation of tidal marsh creek systems associated with sea level rise. Dr. Koepfler’s office is located in the Coastal Science Center (CSCC) and his office phone number is 843-349-2222 (email: eric@coastal.edu).

Dr. Brent Lewis (Associate Professor, Academic Advisor) is a marine and environmental chemist. His research focuses on environmental oxidation-reduction processes and the geochemical cycling/chemical speciation of metals in marine and freshwater environments. Current research topics include seasonal hypoxia in Long Bay, the determination of the magnitude of near-shore submarine groundwater discharge and associated nutrient and metal fluxes into Long Bay and applications of voltammetric microelectrodes for studies in local saltmarsh environments. Dr. Lewis’ office is located in the Cathcart Smith Science Building (SCIE) room 209 and his office phone number is 843-349-4193 (email: blewis@coastal.edu).

Dr. Susan Libes (Professor, Academic Advisor) is a marine and environmental chemist who conducts research on aquatic and marine pollution. She also is the Director of the Waccamaw Watershed Academy and the Program Director of the Environmental Quality Lab, which is certified by the state of South Carolina to perform water quality measurements. This laboratory, under the direction of Dr. Libes, is used to train students for careers in environmental chemistry and marine analytical technology. Dr. Libes also is the author of a textbook in marine chemistry that is used in graduate and undergraduate programs worldwide. Dr. Libes’ office is located in
the Burroughs and Chapin Center for Marine and Wetland Studies (BCMW), which is located in the Atlantic Center. Her office phone number is 843-349-4028 (email: susan@coastal.edu).

Ms. Margaret (Mandy) Stoughton (Lecturer) is a biological oceanographer whose research interests include bio-optical modeling and photosynthesis of seagrass. Ms. Stoughton’s office is located in the Coastal Science Center (CSCC), room 151-G. Her office phone number is 843-349-2236 (email: mstoughto@coastal.edu).

Dr. Keith Walters (Professor, Academic Advisor) is a marine ecologist currently studying invertebrate population and community ecology within estuarine systems. A former Fulbright scholar, Dr. Walters' research experiences range from investigating arctic sea-ice communities in Prudhoe Bay, Alaska, to subtropical seagrass systems in Brisbane, Australia. Recent research interests include wetland and oyster reef dynamics and restoration, terrestrial boundary development effects on wetlands, trait-mediated predation effects on estuarine invertebrate populations, and salt marsh plant-animal interactions. Dr. Walters' office is located outside the Smith Science Center (SCI) and his office phone number is 843-349-2219 (email: kwalt@coastal.edu).

Dr. Eric Wright (Associate Professor, Academic Advisor) is a marine and coastal geologist. His research interests focus on the geologic development and sedimentology of coastal, shelf and wetland environments. Dr. Wright’s office is located in the Coastal Science Center (CSCC) and his office phone number is 843-349-2945 (email: ewright@coastal.edu).

Dr. Robert Young (Professor, Academic Advisor) is a marine biologist whose research interests include the ecology, behavior, and management of fishes and marine mammals, as well as other areas of coastal and estuarine ecology. A former president of the South Carolina Marine Educators Association, he has been involved in numerous marine education programs for students, teachers, and the community. Dr. Young's office is located in the Coastal Science Center (CSCC) and his office phone number is 843-349-2277 (email: ryoung@coastal.edu).

**STAFF**

Susan E. Soucy (Administrative Assistant) assists the Chair of the Marine Science Department. Her responsibilities include running the departmental office and various budgetary duties, including reports, purchasing, and travel. Mrs. Soucy also hires, trains, and supervises several Work-Study students who help keep the office running smoothly, and she attends to the needs of students who wish to change their advisor and/or their major and who have various other academic concerns. Mrs. Soucy is located in CSCC Room 151-I. Office Phone: 843-349-2219. Fax: 843-349-2545. (email: soucy@coastal.edu).
DEGREE REQUIREMENTS FOR
B.S. IN MARINE SCIENCE

Disclaimer: The University Catalog represents the official requirements for the degree. We have tried to make this handbook error-free, but if a discrepancy is found between the University Catalog and this Marine Science Student Handbook, the Catalog takes precedence.

Students must earn a grade of C or better in all major and upper-level science courses. Students who have not earned a C or better in a Mathematics course within one year of enrollment at Coastal Carolina University are considered to be at risk for the Marine Science program.

I. CORE CURRICULUM (38-41 Credits)

English 101, and English 102 or 211 6
Humanistic concepts (choose one course from 2 of the 3 disciplines in list below) 6
    ENGL 205, 287, 288, HIST 101, 102, 202, PHIL 101, 102
Foreign Language 3-6
    Six credit hours in sequence or three credit hours at 130 level or higher.
Global Studies Awareness (choose one) 3
    Option 1 – completion of an approved Study Abroad Course
    Option 2 – completion of one of the following: ECON 150, ENGL 277,
                GEOG 121, HIST 111, 112, HONR 101, POLI 101, RELG 103
Structure and Development of the United States (choose one) 3
    HIST 201 or POLI 201
Human Health and Behavior (choose one) 3
    ECON 110, EXSS 122, HPRO 121, RSM 120, PSYC 101, SOC 101, WGST 103
Creative Expression (choose one) 3
    ARTH 105, 106, ARTS 102, ENGL 201, MUS 110, THEA 101, 201
Math, Science, and Communication requirements listed under “Foundation Courses” 11

II. FRESHMAN GRADUATION REQUIREMENT (0-3 Credits)

University 110 0-3

III. FOUNDATION COURSES (34 Credits)

Mathematics 160*, 161 8
Statistics 201/201L 4
Marine Science 111/111L*, 112/112L 8
Marine Science 201 3
Biology 121, 122 6
    (Students planning to take advanced biology courses are advised to take
     Biology 121L, as it is a prerequisite for upper-level courses.)
Chemistry 111/111L, 112/112L 8
Physics 211/211L, 212/212L 8

A "C" or better is required in all foundation courses except Biology 121, Chemistry 111/111L
and MATH 161.

* MATH 160, MSCI 111/111L, and MSCI 201 also satisfy Core Curriculum math, science, and
communication requirements. Though listed above under Foundation Courses, their credits are
counted toward the total credits for the Core Curriculum and not toward the Foundation total.
IV. MAJOR REQUIREMENTS (36 Credits)

Marine Science 301/301L  4
Marine Science 302/302L  4
Marine Science 304/304L  4
Marine Science 305/305L  4
Science courses from the following list, including at least 8 credits designated as
Marine Science:

- Chemistry Courses numbered 300 and above
- Computer Science 140, 150, and courses numbered 310 and above
- Geography 201, 205
- Geology Courses numbered 300 and above
- Marine Science Courses numbered 300 and above
- Mathematics Courses numbered 240 and above, except 397
- Physics Courses numbered 300 and above
- Statistics Courses numbered 300 and above

A "C" or better is required for all Major Requirements. No more than 6 hours of independent study, internship, and/or directed graduate research and/or senior thesis may be used for major credit.

Recommended Areas of Study in Marine Science

Students interested in graduate school and/or specific areas of interest in marine science are encouraged to pursue one of the following areas of emphasis:
- Atmosphere/Ocean Dynamics
- Coastal Geology
- Marine Analytical Technology
- Marine Biology
- Marine/Environmental Chemistry

Recommended courses for these areas of emphasis can be found in the Marine Science Student Handbook or on the Department of Marine Science web pages. Students interested in graduate school are encouraged to investigate the specific admissions requirements for target graduate programs. Each student will develop their academic plan in consultation with their Marine Science advisor.

V. COGNATE OR MINOR REQUIREMENTS (0 Credits)

Students majoring in Marine Science are not required to complete a minor or cognate. However, they may elect to minor in any field in which Coastal Carolina offers a minor. If the minor includes courses which can be used for Marine Science major credit, then up to 12 hours of those courses may also be applied toward the Marine Science major’s upper level science requirement of 36 hours. Students seeking minors must have an adviser selected from the department offering the minor in addition to their Marine Science adviser.

VI. ELECTIVES (6-12 Credits)

TOTAL CREDITS REQUIRED  120
Sample 4-Year Schedules for Marine Science Majors

The following are suggested schedules, depending on initial math placement. Students will develop their schedules on an individual basis with their faculty advisor. If minors are initiated in the sophomore or early junior year, most can be completed within the four years.

I. Assumes the student begins with MATH 131 or 135

<table>
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<tr>
<th>Freshman Year</th>
<th>Fall</th>
<th>Spring</th>
<th>Sophomore Year</th>
<th>Fall</th>
<th>Spring</th>
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<tr>
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<td>CHEM 111/111L, 112/112L</td>
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<tr>
<td>BIOL 121/L, 122/L (opt.)</td>
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<td>MATH 161</td>
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<td>MATH 131 or 135, 160</td>
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<td>ENGL 101, 102 or 211</td>
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<th>Senior Year</th>
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<th>Spring</th>
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<td>Upper-level MSCI</td>
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<td>MSCI 301/301L</td>
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II. Assumes the student starts with MATH 160

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<th>Sophomore Year</th>
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III. Assumes the student starts with MATH 130/130I

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IV. Accelerated Physics Option starting with MATH 160

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<td>MATH 160, 161</td>
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</table>
AREAS OF EMPHASIS

Students may elect to intensively study an area of interest in Marine Science by selecting an area of emphasis. Each student will plan his or her academic plan in consultation with a Marine Science Advisor.

The following areas of emphasis are recommendations only and do not represent required courses toward a degree program, unless specified for a specific minor or double major.

ATMOSPHERE / OCEAN DYNAMICS (for students interested in pursuing graduate studies in physical oceanography, atmospheric science or other physical sciences)

Recommended Major and/or Elective Courses:
Mathematics 260 and 344, and any MATH/STAT 300 or above (excluding MATH 330)……………………………………………………………………………………………………….9
Computer Science 206 or 207 or 208 or 209…………………………………………………………….3
Marine Science 321/321L……………………………………………………………………………………4
Other Related Advanced Courses (At least 4 credits with Marine Science prefix)

COASTAL GEOLOGY (for students interested in pursuing careers or graduate study in geologic processes that shape and change the coastal zone and the evolution of the coastline's unique environments)

Recommended Major and/or Elective Courses:
Marine Science 316/316L and choose at least 8 credits from Marine Science 416/416L, 445/445L, 399, 497, 499, GEOL 300 or above……………………………………….12
Other related courses:  MSCI 331/331L, 401/401L, 402/402L; PHYS 430, 431, 432; and additional Math and CSCI courses.

MARINE ANALYTICAL TECHNOLOGY (for students interested in pursuing careers as field or lab technicians in the marine sciences)

Recommended Major and/or Elective Courses:

MARINE BIOLOGY (Four general areas of study are available for students interested in the biology of the marine environment.)

General Marine Biology provides a broad background in marine biological topics.
Recommended Major and/or Elective Courses:
Marine Biology Core: Choose from the following courses (Marine Science 331, 355, 376, 399, 420, 455, 458, 471, 473, 474, 475, 476, 477, 478, 479, 495, 497, 499, Biology 310, 426, and associated labs)……………………………………….20
**Graduate School** bound students should take as many of the recommended courses as possible and either minor or double major in Biology.

**Recommended Major and/or Elective Courses:**

- Biology or Marine Science/Biology courses including at least 2 of the following: Biology 340/340L, 350/350L, 370/370L………………………………………………12
  (recommend prioritizing 340 and 350, since ecological concepts from 370 are taught in numerous Marine Science courses)
- Choose from Marine Science courses from the Marine Biology Core and Chemistry 331/331L, 332/332L……………………………………………………...12

**MARINE / ENVIRONMENTAL CHEMISTRY** (for students interested in pursuing careers or graduate study in marine and/or environmental chemistry)

**Recommended Major and/or Elective Courses:**

- Chemistry 331/331L, 332/332L, 321/321L……………………………………………………….12

**DOUBLE MAJORS**

Students may double major in any program which offers a B.S. degree. To complete a double major, students must satisfy the major requirements for both programs and complete a minimum combined total of 48 upper-level credits in the two majors, all with a grade of "C" or better.

**COGNATES OR MINORS**

Students majoring in Marine Science are not required to complete a minor or cognate. However, they may elect to minor in any field in which Coastal Carolina offers a minor. If the minor includes courses which can be used for Marine Science major credit, then up to 12 hours of those courses may also be applied toward the Marine Science major’s upper level science requirement of 36 hours. Students seeking minors must have an adviser selected from the department offering the minor in addition to their Marine Science adviser. Commonly, Marine Science students elect to minor in Biology, Chemistry, Coastal Geology, Computer Science, Environmental Science, Mathematics, Physics, or Statistics.

A grade of C or better is required in each course to be applied toward the minor.

**BIOLOGY MINOR REQUIREMENTS**

- BIOL 121/121L; 122/122L……………………………………………………………………..8
- BIOL 340/340L, 350/350L, 370/370L (choose two)……………………………………8
- Upper Level Biology Courses numbered 300 and above (except 470)………………8
  (no more than 4 hours of BIOL 399 or 499 may apply)

  **TOTAL CREDITS REQUIRED**

  __ 24

**CHEMISTRY MINOR REQUIREMENTS**

- CHEM 111, 111L………………………………………………………………………….. 4
- CHEM 112, 112L………………………………………………………………………….. 4
CHEM 321, 321L………………………………………………………………………………4
CHEM 331, 331L………………………………………………………………………………4
CHEM 332, 332L………………………………………………………………………………4
Three or more 300 level or above CHEM credits or msci 305/L, 355/L, 401/L, 402/L  (CHEM 301, 399, and 499 are not acceptable)………………………………………3-4

TOTAL CREDITS REQUIRED

COASTAL GEOLOGY MINOR REQUIREMENTS
GEOL 102/102L, 111/111L, or 112/112L…………………………………………………………4
GEOL 304/L and 316/L………………………………………………………………………………8
Choose two courses from GEOL 300 or above, MSCI 445/L, 416/L, or MSCI 399, 497, or 499 approved by geology minor coordinator…………………8

TOTAL CREDITS REQUIRED

COMPUTER SCIENCE MINOR REQUIREMENTS
MATH 174………………………………………………………………………………………….3
CSCI 140/L, 150/L, 210, 220, 305, 310…………………………………………………………18
Choose one from CSCI 208 or 209……………………………………………………………………3
Choose one from CSCI 330 and above……………………………………………………………………3

TOTAL CREDITS REQUIRED

ENVIRONMENTAL SCIENCE MINOR REQUIREMENTS
BIOL 121, and 122………………………………………………………………………………………….6
CHEM 111, 112…………………………………………………………………………………………4
MATH 160………………………………………………………………………………………………8
PHYS 201, 202 OR 211, 212…………………………………………………………………………………………8
STAT 201………………………………………………………………………………………………4
ENVI 201, 420………………………………………………………………………………………………8
Students must choose from the following courses…………………………....11-12
   BIOL 370, 475, ENVI 399*, 487*, 499*, MSCI 321, 331, 355, 401, 402,
   403*, 474, 475, 498, 495; MATH 242, 242L, PHIL 319
   *only 6 credits may be applied towards the minor

TOTAL CREDITS REQUIRED

MATHEMATICS MINOR REQUIREMENTS
MATH 160, 161………………………………………………………………………………………….8
MATH 260………………………………………………………………………………………………4
MATH 320………………………………………………………………………………………………3
MATH 331, 332, 344, 446, 465 or 474 (Choose one)……………………………………….3
STAT 201/L…………………………………………………………………………………………4
Computer Science (Must be a programming language)……………………………3
   (Computer Science majors must take Computer Science 360)

TOTAL CREDITS REQUIRED
PHYSICS MINOR REQUIREMENTS

PHYS 211/211L, 212/212L, 213/213L…………………………………………….12
PHYS 301/301L, 302/302L, 303/303L, 310/310L (choose two) .................6
Any 300 or higher Physics course, CHEM 441/L or 442/L, MSCI 301/L
(399 can be used for 3 credits only)....................................................6-7

TOTAL CREDITS REQUIRED 24-25

STATISTICS MINOR REQUIREMENTS

STAT 201/L……………………………………………………………………4
MATH 260…………………………………………………………………….4
STAT 315, 316, 317 (Choose two).....................................................6
STAT 412……………………………………………………………………….3
STAT 318, 399, 413, 420 (Choose 2)....................................................6

TOTAL CREDITS REQUIRED 23
LIST OF MARINE SCIENCE COURSES (MSCI)

101 The Sea. (3) (not available for major credit)
101L Laboratory for The Sea. (1) (not available for major credit)
102 Environmental Geology. (3) (not available for major credit)
102L Environmental Geology Laboratory. (1) (not available for major credit)
103 Navigation and Seamanship. (3) (not available for major credit)
111 Introduction to Marine Science. (3)
111L The Present-Day Marine Environment Laboratory. (1)
112 The Origin and Evolution of the Marine Environment. (3)
112L Marine Environment Laboratory. (1)
201 Scientific Communication. (3)
301 Physical Oceanography. (3)
301L Physical Oceanography Laboratory. (1)
302 Marine Biology. (3)
302L Marine Biology Laboratory. (1)
303 Aquaculture. (3)
304 Marine Geology. (3)
304L Marine Geology Laboratory. (1)
305 Marine Chemistry. (3)
305L Marine Chemistry Laboratory. (1)
311 Hydrographic Techniques. (3)
311L Hydrographic Techniques Laboratory. (1)
316 Sedimentary Geology. (3)
316L Sedimentary Geology Laboratory. (1)
321 Atmospheric Science. (3)
321L Atmospheric Science Laboratory. (1)
331 Introduction to Geographic Information Systems (GIS) and Remote Sensing. (3)
331L Introduction to Geographic Information Systems Laboratory. (1)
355 Introduction to Environmental Ecotoxicology. (3)
355L Introduction to Environmental Ecotoxicology Laboratory. (1)
376 Biology of Sea Turtles. (3)
376L Biology of Sea Turtles Laboratory. (1)
399 Independent Study/Internship. (1-4)
401 Environmental Chemistry. (3)
401L Environmental Chemistry Laboratory. (1)
402 Analytical and Field Methods in Environmental Chemistry. (3)
402L Analytical and Field Methods in Environmental Chemistry Laboratory. (1)
403 Environmental Internships. (3)
416 Hydrogeology. (3)
416L Hydrogeology Laboratory. (1)
420 Advanced Environmental Science. (3)
420L Advanced Environmental Science Laboratory. (1)
440 Applied Coastal Geophysics. (3)
440L Applied Coastal Geophysics Laboratory. (1)
445 Coastal Processes. (3)
445L Coastal Processes Laboratory. (1)
455 Marine Botany. (3)
455L Marine Botany Laboratory. (1)
458 Fisheries Science. (3)
458L Fisheries Science Laboratory. (1)
LIST OF ADDITIONAL SCIENCE AND MATH COURSES AVAILABLE FOR UPPER LEVEL MAJOR CREDIT FOR THE MARINE SCIENCE DEGREE

Students can count up to 12 credits of non-MSCI courses from the following list toward their MSCI degree:

- Chemistry Courses numbered 300 and above
- Computer Science 140, 150, and courses numbered 310 and above
- Geography 201, 205
- Geology Courses numbered 300 and above
- Marine Science Courses numbered 300 and above
- Mathematics Courses numbered 240 and above, except 397
- Physics Courses numbered 300 and above
- Statistics Courses numbered 300 and above

Expanded List:

**BIOLOGY (BIOL)**

302 Marine Biology. (3) *(Cross-listed with MSCI)*
302L Marine Biology Laboratory. (1) *(Cross-listed with MSCI)*
310 Invertebrate Zoology. (3)
310L Invertebrate Zoology Laboratory (1)
315 Comparative Vertebrate Anatomy. (3)
315L Comparative Vertebrate Anatomy Laboratory. (1)
330 Microbiology. (3)
330L Microbiology Laboratory. (1)
340 Cell Biology. (3)
340L  Cell Biology Laboratory. (1)
343  Comparative Physiology. (3)
343L  Comparative Physiology Laboratory. (1)
350  Fundamentals of Genetics. (3)
350L  Fundamentals of Genetics Laboratory. (1)
365  Evolution.  (3)
365L  Evolution Laboratory. (1)
370  Principles of Ecology. (3)
370L  Principles of Ecology Laboratory. (1)
375  Biology of Marine Mammals. (3) (*Cross-listed with MSCI*)
375L  Marine Mammals Laboratory. (1) (*Cross-listed with MSCI*)
399  Independent Study. (1-6)
410  Developmental Biology. (3)
410L  Developmental Biology Laboratory. (1)
426  Ichthyology: Fish Biology. (3)
426L  Ichthyology Laboratory. (1)
436  Animal Behavior. (3)
436L  Animal Behavior Laboratory. (1)
442  Advanced Genetics. (3)
442L  Advanced Genetics Laboratory. (1)
450  Molecular Biology and Evolution. (3)
450L  Molecular Biology and Evolution Laboratory. (1)
451  Molecular Techniques.  (4)
455  Marine Botany. (3) (*Cross-listed with MSCI*)
455L  Marine Botany Laboratory. (1) (*Cross-listed with MSCI*)
461  Ornithology.  (3)
461L  Ornithology Laboratory. (1)
475  Marine Ecology. (3) (*Cross-listed with MSCI*)
475L  Marine Ecology Laboratory. (1) (*Cross-listed with MSCI*)
476  Marine Plankton. (*Cross-listed with MSCI*)
476L  Marine Plankton Laboratory. (1) (*Cross-listed with MSCI*)
477  Ecology of Coral Reefs. (3) (*Cross-listed with MSCI*)
481  Freshwater Ecology. (3)
481L  Freshwater Ecology Laboratory. (1)
484  Conservation Ecology. (3)
484L  Conservation Ecology Laboratory. (1)
485  Vertebrate Zoology. (3)
485L  Vertebrate Zoology Laboratory. (1)
488  Wetland Plant Ecology. (3)
488L  Wetland Plant Ecology Laboratory. (1)
499  Directed Undergraduate Research. (1-6)

**CHEMISTRY (CHEM)**

321  Quantitative Analysis. (3)
321L  Quantitative Analysis Laboratory. (1)
331  General Organic Chemistry I.  (3)
331L  General Organic Chemistry Laboratory I. (1)
332  General Organic Chemistry II. (3)
332L  General Organic Chemistry Laboratory II. (1)
351  Biochemistry I. (3)
351L  Biochemistry Laboratory I. (1)
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<td>398</td>
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<td>450L</td>
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<td>499</td>
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**COMPUTER SCIENCE (CSCI)**

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<tr>
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<td>150</td>
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<tr>
<td>150L</td>
<td>Introduction to Algorithmic Design II Laboratory.</td>
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<tr>
<td>310</td>
<td>Introduction to Computer Architecture.</td>
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<tr>
<td>330</td>
<td>Software Engineering I. (3)</td>
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<tr>
<td>335</td>
<td>Software Project Management. (3)</td>
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<td>360</td>
<td>Numerical Calculus. (3)</td>
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<tr>
<td>370</td>
<td>Data Communication Systems and Networks. (3)</td>
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<tr>
<td>380</td>
<td>Introduction to the Analysis of Algorithms.</td>
<td>(3)</td>
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<tr>
<td>385</td>
<td>Introduction to Information Systems Security.</td>
<td>(3)</td>
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<tr>
<td>390</td>
<td>Theory of Computation. (3)</td>
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<td>399</td>
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<td>409</td>
<td>Middleware and E-Commerce. (3)</td>
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<td>410</td>
<td>Operating Systems. (3)</td>
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<td>415</td>
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<td>425</td>
<td>Database Systems Design. (3)</td>
<td></td>
</tr>
<tr>
<td>430</td>
<td>Organization of Programming Languages. (3)</td>
<td></td>
</tr>
<tr>
<td>440</td>
<td>Introduction to Computer Graphics. (3)</td>
<td></td>
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<tr>
<td>450</td>
<td>Principles of Compiler Design. (3)</td>
<td></td>
</tr>
<tr>
<td>460</td>
<td>Algorithms in Bioinformatics. (3)</td>
<td></td>
</tr>
<tr>
<td>480</td>
<td>Introduction to Artificial Intelligence. (3)</td>
<td></td>
</tr>
<tr>
<td>485</td>
<td>Introduction to Robotics. (3)</td>
<td></td>
</tr>
<tr>
<td>490</td>
<td>Software Engineering II. (3)</td>
<td></td>
</tr>
<tr>
<td>497</td>
<td>Computer Science Internship. (1-3)</td>
<td></td>
</tr>
<tr>
<td>498</td>
<td>Cooperative Education. (1-3)</td>
<td></td>
</tr>
<tr>
<td>499</td>
<td>Topics in Computer Science. (1-3)</td>
<td></td>
</tr>
</tbody>
</table>

**GEOGRAPHY (GEOG)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>201</td>
<td>Introduction to Physical Geography. (4)</td>
<td></td>
</tr>
<tr>
<td>205</td>
<td>The World of Maps and Mapping. (3)</td>
<td></td>
</tr>
</tbody>
</table>
GEOLOGY (GEOL)
304 Marine Geology. (3) (Cross-listed with MSCI)
304L Marine Geology Laboratory. (1) (Cross-listed with MSCI)
316 Sedimentary Geology. (3) (Cross-listed with MSCI)
316L Sedimentary Geology Laboratory. (1) (Cross-listed with MSCI)
399 Independent Study. (1-6)
416 Hydrogeology. (3) (Cross-listed with MSCI)
416L Hydrogeology Laboratory. (1) (Cross-listed with MSCI)
487 Selected Topics in Coastal Geology. (1-4)
499 Directed Undergraduate Research. (1-4)

MATHEMATICS (MATH)
242 Modeling for Scientists. (3)
242L Modeling for Scientists Lab. (1)
260 Calculus III. (4)
320 Elementary Differential Equations. (3)
330 Geometry for Middle School. (3)
331 Foundation of Geometry. (3)
332 Modern Geometry. (3)
344 Linear Algebra. (3)
349 Nonlinear Dynamics with Applications. (3)
370 Elementary Number Theory. (3)
399 Independent Study/Internship. (1-4)
434 Elements of General Topology. (3)
446 Abstract Algebra. (3)
450 Advanced Calculus I. (3)
452 Complex Variables. (3)
454 Analysis. (3)
460 Numerical Calculus. (3)
465 Applied Mathematics I. (3)
466 Applied Mathematics II. (3)
474 Discrete Mathematics I. (3)
490 Seminar in Mathematics. (1)
499 Directed Undergraduate Research. (1-3)

PHYSICS (PHYS)
301 Analytical Mechanics. (3)
302 Electricity and Magnetism. (3)
303 Quantum Mechanics. (3)
310 Mathematical Methods in Physics. (3)
321 Electronics. (3)
330 Computer Interfacing and Instrumentation. (3)
340 Intermediate Astronomy. (3)
341 Thermodynamics and Statistical Mechanics. (3)
398 Physics Seminar. (1)
399 Independent Study. (1-6)
410 Optics. (3)
420 Solid State Physics. (3)
430 Fluid Mechanics. (3)
431 Geophysical Fluid Dynamics. (3)
431L Geophysical Fluid Dynamics Laboratory. (1)
432 Remote Sensing of the Environment. (3)
432L Remote Sensing of the Environment. (1)
434 Atmospheric Physics. (3)

STATISTICS (STAT)
315 Regression Analysis. (3)
316 Experimental Design. (3)
317 Nonparametric Statistical Methods. (3)
318 Biostatistics. (3)
399 Independent Study/Internship in Statistics. (3)
412 Statistical Inference I. (3)
413 Statistical Inference II. (3)
419 Actuarial Mathematics I. (3)
420 Statistical Computing. (3)
STUDENT CLUBS AND ORGANIZATIONS

Students are encouraged to become active in student clubs and organizations on campus. Clubs are a great way for new students to meet and make friends, and for continuing students to become involved in their community. Holding a leadership position in a club or organization is a great way to enhance your resume and many scholarship committees heavily weigh a student's extracurricular activities in their funding decisions. Following is a list of the most popular clubs with the Marine Science Department. If a student is interested in joining one or more of these clubs, they should keep a look out for signs posted in the Science Building that announce meetings. Meetings are usually held in the Science Building and they are often open to anyone who wishes to join. The only exception to this is Sigma Zeta, where potential members have to apply and are chosen based on academic criteria.

Society of the Undersea World (SUW)
Faculty Advisor - TBA
SUW is a student academic and social club that is dedicated to fostering an understanding of the marine environment and promoting the responsible stewardship of our coasts and oceans. The club sponsors presentations by invited speakers, faculty, and students, as well as social activities and “eco-outings,” such as dive trips, fishing, and camping. SUW coordinates student participating in local research projects and environmental activities, making the club an excellent way to get to know fellow students, faculty, and to get involved.

Sigma Zeta Beta Mu
Faculty Advisors - Dr. Susan Libes (susan@coastal.edu) and Dr. James Luken (joluken@coastal.edu)
Sigma Zeta is a national honor society for science and mathematics students.

Students for Environmental Action (SEA)
Adviser – Jennifer Sellers, Sustainability Coordinator (Jennifer@coastal.edu)
The purpose of SEA is to promote an awareness of and to stimulate an interest in environmental issues both on campus and off. It also strives to keep students informed of and involved in programs and policies of the School of Natural and Applied Sciences that relate to environmental issues and environmental education, as well as promoting community service in the field of environmental science.

The Fishing Club
Advisor – Dr. Erin Burge (eburge@coastal.edu)

Coastal Underwater Diving Association (CUDA)
Advisor – TBA
CUDA is the SCUBA diving club at Coastal Carolina University. Divers and non-divers are both welcome! We try to make one local dive a semester, go kayaking, camping, and then travel somewhere for a spring break trip. We have gone to the Florida Keys in past years. We try to encourage non-divers to come out and get an idea of what scuba is all about. Local dive shops also come in periodically and give presentations about the local diving.

Swim Club
Contact: The Student Activities office in the Student Center
The swim club holds regular practices that are determined by everyone's availability and skill. At least 1 away swim meet per semester competes with other club teams. If you are interested in joining please contact the email address above.
CAREER EXPLORATION

Students are urged to start thinking about their plan for life after graduation during their first year at Coastal. Whether you are planning on entering the job market directly, or you are planning on continuing your education in a graduate program, it is never too early to start preparing. Gaining valuable experience through research projects and internships, as well as getting involved in clubs and volunteer work, will make your resume more attractive to employers and graduate schools. There are Career Fairs and Graduate School Information Fairs for students to participate in as well as events put together by the Marine Science Department and student clubs. Many resources are available and students are encouraged to take advantage of them early on. Career Services also offers the opportunity to put your resume on-line.

Student Employment and the Career Services Center are located in the The Indigo House. The Career Service specialist for the College of Natural and Applied Sciences also holds office hours at the Center. Contact Connie Jones at cjones12@coastal.edu or 843-349-2677 if you would like to schedule an appointment with this professional.

Students can also receive job search assistance as well as career development counseling in this office. A new Career Resource Center has been developed with funding from the Student Technology Fees, which allows access to job listings, graduate school listings, and other career development tools on the internet as well as other relevant web sites. Resume services, mock interviewing, computerized counseling tools and videos, and an extensive library of resources to assist in the pursuit of your future goals are also available to students.

INTERNET LINKS

UNIVERSITY WEB PAGE
www.coastal.edu
Through Coastal Carolina University's web page, students can gain access to such resources as the Kimbel Library catalog, the Virtual Career Center including part-time and full-time job listings, information on recreational and intra-mural activities as well as information on academic departments.

MARINE SCIENCE DEPARTMENT WEB PAGE
kingfish.coastal.edu/marine
Features pages for many Marine Science courses, information on the Marine Science Computer Lab and various student services. New pages are being added so keep this page bookmarked. You will also find links to relevant sites on the web featuring job listings, internships and other career information.

WEBADVISOR
my.coastal.edu
Using your Coastal username (e-mail address) as your login name and your Coastal PIN (Personal Identification Number) as your password, any student can access their academic or financial summaries and profiles. WebAdvisor is also used for course registration; after you have met with your Faculty Advisor and had any holds removed from your account, you can register on-line and add/drop courses as necessary.
IMPORTANT ACADEMIC ISSUES

GRADE ACCESS: Coastal Carolina University students may access final grades via WebAdvisor.

COURSE LOAD: A typical course load is 15 – 17 hours or 5 classes per semester. To take more than 18 credit hours a semester, a student must have an average GPA of 3.0 and be prepared to pay for the additional credit(s). Adding a course may be done during the Drop/Add period only. All changes in a student’s schedule require the signature of his or her adviser. Permission to add an overload must be approved by the student’s adviser and the Chair of the Department on a Special Permission form.

DROPPING A COURSE: The academic calendar lists the last day a student may drop or withdraw from a course without receiving a W/F (drop with a failing grade). Students are urged to check the schedule each semester, although many faculty include this important date on the course syllabus. Under extraordinary circumstances students can petition to withdraw from classes after the drop date. In order to do this the student must fill out a Request for Drop/Withdrawal for Extenuating Circumstances form. This form can be found in the Marine Science Department office.

GRADES OF “D”: If you receive a “D” or below in any upper-level courses taken for major credit or in any other course in which you need a "C" or better, you will be required to repeat the course (refer to section on repetition of a course).

INCOMPLETE GRADES: A grade of “I” or Incomplete is given at the discretion of the faculty member and indicates satisfactory attendance and performance, but failure to complete some part of the assigned work. After consulting with the instructor, who completes an “Assignment of Incomplete Grade” form, the student receives conditions or terms for completion of the course. Students who receive "I" grades may have up to one semester to complete the work before a grade of “F” is reported. However, the instructor determines time allowed to complete an "I" grade. The “I” grade is not computed into the GPA.

PASS/FAIL OPTION: Students are permitted to exercise the pass/fail option only on elective courses and may do so on no more than 8 courses. The student must obtain approval from both their advisor and department chair prior to enrollment in the course(s).

GRADE POINT AVERAGE: The grade point average (GPA) is computed on the basis of all hours attempted for credit, except for credit hours carried under pass/fail or audit options. The grade points earned in any course carried with a passing grade are computed by multiplying the number of credits hours assigned to the course by the number of grade points determined by the grade.

\[
\begin{align*}
A &= 4.0 \\
B+ &= 3.5 \\
B &= 3.0 \\
C+ &= 2.5 \\
C &= 2.0 \\
D+ &= 1.5 \\
D &= 1.0
\end{align*}
\]

The grade point average is determined by dividing the total grade points earned by the total number of grade hours attempted.
PROBATION and SUSPENSION: Any student who is not making “Satisfactory Academic Progress” will be put on either academic probation or they will be suspended. The details of this policy can be found in the CCU student handbook and the CCU catalog. It is recommended that you consult with your faculty advisor and seek help and assistance if you believe or know that your Grade Point Average is below a 2.0.

REPETITION OF A COURSE: A student may repeat a course, which has been passed in order to raise the grade, only in the event that the department requires a higher grade in the course. A student who repeats the course will have both grades entered on the permanent academic record and computed into the grade point average. Course credit toward graduation will be given only once, unless otherwise stipulated, in the course description. Students can opt for an exception to this rule through the “Repeat Forgiveness” policy (see below).

REPEAT FORGIVENESS OF A COURSE: A student may elect to count up to 13 credits of specific courses for Repeat Forgiveness. Students must submit a Course Repeat Request form by the end of the drop/add period for the semester in which the course is being repeated. Under this policy, the grade for both the original and the later course appear on the transcript, but only the latter grade is included in the GPA calculation. Only courses with a grade of C or lower can be repeated.

GRADUATING WITH HONORS: Graduation with honors will be based on a cumulative GPA calculated on the basis of all work in the student’s postsecondary career, including any attempted at other institutions, provided that the GPA achieved at Coastal meets the level specified for the honors sought. This calculation will include all courses attempted, not just those submitted in fulfillment of graduation requirements. To graduate with honors, a student must have earned at least 60 credit hours applicable toward the degree in residence at Coastal. Courses taken as a transient student at another institution, by correspondence, by examination, by exemption, or credits earned through military credentials are not considered “in residence”.

CORE CURRICULUM: All students at CCU must complete an extensive round of core courses to ensure a well-rounded liberal arts education. Many departments encourage their majors to finish these courses as soon as possible. This is NOT a good idea for science majors because most upper level major courses include a laboratory. Scheduling and taking 4 lab courses in one semester is extremely difficult. Therefore, students should plan their schedules to include at least one non-lab course for each semester of their college career.

CORE CURRICULUM WAIVERS: If a course has transferred in from another school which does not exactly fulfill a core requirement, but the advisor and the student feel that it fulfills the intent of the core (see University Catalog for description of Core Curriculum goals), a Petition for Exception to Core Curriculum Requirements form can be submitted for review to the Core Curriculum Committee. This form can be found either in the Marine Science office or the Registrar’s Office. After all the necessary signatures have been obtained, the student must make a copy of the petition to place in his/her file and then turn the original petition into the Dean of the School of Natural and Applied Sciences. The Dean will forward the petition on to the core
curriculum committee. Please note that this process may take two months or more and it is the student's responsibility to follow up.

**MARINE SCIENCE INTERNSHIPS**: Local internships are available through CCU each semester, or if they wish, students can identify their own internships either locally or outside of the area. Any internship arranged by the student must be approved in advance by the Internship Committee. Students can obtain an internship packet through the Marine Science Department Student Services Coordinator or their Faculty Advisor. The student makes their choices for an internship, fills out the application and turns it in along with a copy of their resume and a faculty recommendation by the posted deadline. The faculty then notifies their advisor as to which internship they were chosen for. Students must have completed one upper level Science course (300 level or above) with at least a "C" and have an overall GPA of 2.5 before they can apply for Internships. No more than six (6) hours of independent study, internship, and/or directed undergraduate research and/or senior thesis may be used for major credit.

**STUDENT RESEARCH PROJECTS**: Marine Science students are strongly encouraged to complete a directed undergraduate research project and/or a senior thesis project. It is the Department's core philosophy that students benefit greatly from hands on experience and this training will prove invaluable once the student has graduated and finds himself/herself competing in the job market or applying to graduate schools. In order to sign up for either class the student must fill out a Contract for Research Work, an Instructional/Course Contract for Non-Traditional Study form, and a Special Permission form. Once all the necessary signatures have been obtained, the student then takes the Special Permission form to the Registrar’s office to be enrolled in the class. No more than six (6) hours of independent study, internship, and/or directed undergraduate research and/or senior thesis may be used for major credit.

**GRADUATE STUDY IN MARINE SCIENCE**: Many careers in Marine Science, such as being a Research Scientist in either industry or with the government, Marine Policy Law, and Teaching and Research at a College or University, require either a master’s or a Ph.D. degree. Students who are interested in attending graduate school are encouraged to begin the application process in their junior year.

**TRANSFER CREDIT ADJUSTMENTS**: A student’s advisor should evaluate his/her Transfer Credit Report. If the advisor/student does not agree with how one or more of the courses have been transferred into CCU, a Transfer Credit Evaluation Adjustment Form needs to be filled out. This form can be found in the Marine Science Office, room 105. This form should be filled out by the advisor and then the student should obtain the signatures from the Department Chair of the Marine Science Department, and also the Dean of the School of Natural & Applied Sciences. Please note that the student also needs to get the signature from the Chair of the Department of the course in which they wish to adjust. For example, if a History class is transferred in as a History elective, but is should have come in as History 101, then the student needs to have the Chair of the History Department sign the form as well as the Chair of the Marine Science Department and the Dean of Natural & Applied Sciences. After all the necessary signatures have been obtained, the student should then place a copy of the completed form in their advisement file and take the original to the Admissions Office. There the course will be adjusted on his/her records. The student is responsible for following up to make sure this has been completed. It is very important for the student to keep a copy in his/her advisement file.
SPECIAL ENROLLMENT REQUESTS: Special Enrollment Request Forms are used in the following instances, Transient Study, Transient Study through the National Student Exchange Program, Transient Study Abroad, Concurrent Enrollment, Cooperative Education, and Correspondence Courses. If a student is planning on taking any classes anywhere besides Coastal Carolina University, the student needs to fill out a Special Enrollment Request Form to ensure that the course will transfer.** This form can be found in the Marine Science Department Office. After the student has completed the course, they should request that a copy of the transcript for that course be sent to Coastal. Once the transcript has been sent and the Registrar’s Office has been given enough time to enter the course into the student’s records, then the student should request a copy of their Transfer Credit Report, either from the Administrative Assistant in the Marine Science Department, or by the Registrar’s Office to ensure that the class was transferred correctly.

**Notes:** Courses will not be accepted for transfer if the student has previously failed to earn the required grade in an equivalent course at CCU. The student’s last 30 credits must be CCU courses completed “in residence”, however, a general petition may be submitted to request that the 30-credit hour rule be waived. Also the student may petition to take a course at another school in which s/he has failed to earn the required grade at CCU. See explanation of General Petition procedures below.

GENERAL PETITION TO EXEMPT THE 30-HOUR or D/F GRADE RULE: The 30-hour rule states that a student must complete the last 30 credits “in residence” at Coastal Carolina University. However, if a student wishes to have the 30-hour rule waived for some certain circumstances must fill out a General Petition Form. This form can found either in the Marine Science office or the Registrar’s Office. After all the necessary signatures have been obtained, the student must make a copy of the petition to place in his/her file and then turn the original petition into the Dean of the School of Natural and Applied Sciences. The Dean will forward the petition to the School’s Petitions Committee for review. Please note that it is the student's responsibility to follow up. If the petition has been approved then a copy must be placed in the student’s file for future reference. The same procedure is followed if the student wishes to take a course at another school after they have already taken the class at Coastal Carolina University and failed to earn the required grade.

OBTAINING CREDIT BY EXAMINATION: Credit by examination may be awarded after the student obtains the required score on the appropriate College-Level Examination Program (CLEP) Subject Examination. CLEP credit may only be posted after the Registrar’s Office has received the official score report from the Education Testing Service; credit cannot be transferred from another college/university transcript. More information regarding specific CLEP Subject Examinations may be obtained by the student from the University’s Testing Office, Prince Building, Room 211. A Departmental Examination may be given to students seeking credit for course work from an institution not regionally accredited or for knowledge gained through life experience. These Departmental Exams would only be administered if a CLEP Subject Examination does not exist. Before the examination is administered, the department must determine student eligibility and require a Bursar’s Office receipt as specifying payment of fees and the course to be examined. Examination results and proof of payment will be forwarded to the Registrar’s Office in order for credit to be posted to the student’s academic record. It is the student’s responsibility to follow up and make sure this has been completed.
# ADVISEMENT PROCEDURES CHECKLIST
## FOR TRANSFER STUDENTS

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Signatures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Name:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Start date at CCU:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Credits transferred from:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCU transfer Credit Report reviewed by student and advisor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verify transcripts are complete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer Credit Evaluation Adjustment Form (TCEAF) initiated by adviser</td>
<td></td>
<td></td>
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<tr>
<td>by adviser (Make a notation of <strong>NA</strong> if not needed)</td>
<td></td>
<td></td>
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<tr>
<td>TCEAF signatures obtained from department chair of each</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course, chair and dean of major</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy of signed TCEAF put in student’s advisement file</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signed TCEAF submitted to Office of Admissions</td>
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<td></td>
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<tr>
<td>Adjustments verified on current CCU Transfer Credit Report</td>
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<td></td>
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<tr>
<td>Core Curriculum Waiver Petition initiated by adviser (Make</td>
<td></td>
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<tr>
<td>notation of <strong>NA</strong> if not needed)</td>
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<tr>
<td>Student writes statement</td>
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<td></td>
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<tr>
<td>Advisor writes statement</td>
<td></td>
<td></td>
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<tr>
<td>All required signatures obtained</td>
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<td></td>
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<tr>
<td>Petition submitted to Core Curriculum Committee</td>
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<td></td>
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<tr>
<td>Copy of Committee’s Decision placed in student’s advisement file</td>
<td></td>
<td></td>
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<tr>
<td>General Petition initiated by adviser (Make notation of <strong>NA</strong> if not</td>
<td></td>
<td></td>
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<tr>
<td>needed)</td>
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<td></td>
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<tr>
<td>Student writes a statement to go with Petition</td>
<td></td>
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<tr>
<td>Adviser appends a statement of support</td>
<td></td>
<td></td>
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<tr>
<td>Petition signatures obtained and submitted to committee</td>
<td></td>
<td></td>
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<tr>
<td>through the Dean’s office</td>
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<td></td>
</tr>
<tr>
<td>Copy of Chair’s Decision is attached to memo and placed in student’s</td>
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<td></td>
</tr>
<tr>
<td>advisement file</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final Verification of CCU Transfer Credit Report completed no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>later than one year prior to graduation</td>
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<td></td>
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</tbody>
</table>
ACADEMIC and STUDENT SERVICES

ACADEMIC CENTER
The Academic Center comprises a comprehensive network of academic support services designed to promote student success in college. Faculty, tutors, and peer advisors work with students who need or desire extra instruction in a variety of academic areas. These services include:

- Computer Assisted Instruction (CAI) Laboratory
- Foreign Language Instructional Center (FLIC)
- Writing center
- Mathematics Laboratory
- Testing Center
- Athlete's Study Hall

These support services are available at no cost to students of Coastal Carolina University. The Academic Center and the labs, except for the Math Lab, are located on the second floor of the Prince Building. The Math Lab is located in Room 120 of the Wall Building.

COMPUTER ASSISTED INSTRUCTION (CAI) LABORATORY
Prince Building 204, 349-2938
The CAI Lab provides assistance to students, faculty and staff who need help with computer projects. The diversity of the CAI Lab hardware and software makes it a central hub for all types of computer activities. The CAI Lab has state-of-the-art hardware and a collection of software that supports word processing, spreadsheet, database, graphing, and desktop publishing capabilities on IBM and Apple computers. In addition the CAI Lab provides Internet and e-mail access as a major source of information and as a means of communication. The CAI Lab also provides individual tutorials as well as schedule workshops on basic software such as WordPerfect and Quattro Pro.

FOREIGN LANGUAGE INSTRUCTIONAL CENTER (FLIC)
Prince Building 213, 349-2468
The FLIC supports courses offered by the Department of Foreign Languages. The FLIC offers dictionaries and reference materials, tutoring by appointment, live television broadcasts in foreign languages, foreign language computer exercises, magazines and newspapers, audio cassette duplicating, and two audio labs for listening to and recording class exercises.

WRITING CENTER
Prince Building 209, 349-2937
The Writing Center provides assistance to students and members of the Coastal Carolina University community who would like to improve their reading, writing, and study skills through individual consultations. Faculty and student consultants are available to assist students at any stage in their writing process and consulting is available on a walk-in or appointment basis. The center also operates a satellite location in the freshman dormitory three evenings a week. In addition, the Writing Center offers scheduled workshops on a variety of writing topics.

MATHEMATICS LAB
Wall Building 120, 349-2934
The Mathematics Laboratory is designed to assist students with problem-solving skills and conceptual knowledge in courses such as Algebra, Geometry, Trigonometry and Calculus. Faculty and student tutors are available to assist students at different levels. Resources such as software and textbooks are available to complement tutorial sessions.
COMPUTER BASED TESTING CENTER
Foundation Center
Contact person: Kay Alford, Director of Academic Testing Services (349-4004 or kay@coastal.edu). The Testing Center exists to support faculty and students who need special administration of national and departmental examinations. The center is also responsible for the administration of the College Level Exam Program (CLEP), the Millers Analogies Test (MAT), and the Education Entrance Exam. The center also provides test administration services for students with special needs.

STUDENT-ATHLETE ADVISING
Indigo House, 349-2315
This process includes providing assistance with admissions, registering for the proper classes, monitoring grades and degree progress, scheduling study hall attendance, and arranging tutorial help.

PLACEMENT EVALUATION
All first-year Marine Science Students who have not previously taken a college level mathematics course will be required to take a placement evaluation in mathematics. Foreign Language placement evaluation is also required. Placement evaluation is designed to improve the chances of student success in college and assist the student and advisor in selecting the most appropriate courses for the individual student's academic program.

MATHEMATICS PLACEMENT EVALUATION
The Mathematics Placement Evaluation consists of multiple-choice questions designed to measure student proficiency in areas ranging from arithmetic and algebra through trigonometry and calculus. Some of the topics tested include fractions, decimals, signed numbers, equations, factoring, and graphing. Students should be able to complete the test within one hour. The results will be used by the Marine Science Department to determine the most appropriate mathematics course for the student based upon his/her level of proficiency.

KIMBEL LIBRARY
All students are encouraged to use the library facilities. In addition to books and journals, internet library access is available. Students may also search the library's catalog through CCU's web page from anywhere they are able to access the internet. Audiovisual materials (including videotapes, records, and compact disks) are located in the Media Collection on the second floor. A reference librarian should be consulted for help in using the library and finding resources. In order to check out materials, a student must present a barcoded Coastal Carolina University ID card. Fines on overdue materials are assessed at a rate of five cents per day. Typewriters are available for student use. Hours (modified during holidays, breaks and summer sessions, with changes posted in advance) are:

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday - Thursday</td>
<td>8 am to 11 pm</td>
</tr>
<tr>
<td>Friday</td>
<td>8 am to 5 pm</td>
</tr>
<tr>
<td>Saturday</td>
<td>9 am to 5 pm</td>
</tr>
<tr>
<td>Sunday</td>
<td>1 pm to 11 pm</td>
</tr>
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STUDENT AFFAIRS
The Office of the Vice President for Student Affairs coordinates the efforts of the following departments: Student Employment and Career Services, Counseling Services, Student Health Services, Alcohol and Drug Prevention Program, International Student Advisement/Counseling and Study Abroad Advisement, Student Activities, Law Enforcement and Safety, Intramurals and Recreation, and the Office of Residence Life.

Coastal Carolina University offers a wide range of activities for students. Some of the extracurricular activities in which students can become involved are:

**ATHLETIC PROGRAMS**
Athletic Administration Building, 349-2820
Coastal offers a range of opportunities in athletic participation. The University competes intercollegiately in 14 varsity sports in NCAA Division 1. The cheerleading squad supports the university's athletic program and has received national honors.

**INTRAMURALS AND RECREATION ACTIVITIES**
Williams Brice Building, 349-2802
A wide variety of intramural and leisure activities for men and women are available. Competition is available in team as well as individual sports. All Coastal students, faculty and staff are eligible to compete.

**RECREATION AND PHYSICAL DEVELOPMENT**
Williams Brice Building, 349-2802
Coastal offers many recreational and physical development opportunities. The Williams Brice Building is the center of this activity. The Kimbel Gym, swimming pool, auxiliary gym, four racquetball courts, weight room, dance studio and locker rooms are housed in this building. Tennis courts, athletic fields and a track and field facility are also available.