Department of Biology Overview

36 Full-time faculty (get to know them!)

750 BIOL majors
185 graduates

260 MBIO majors
25-35 graduates (but growing)
Get involved in high impact learning opportunities!

67 biology or marine biology majors studied abroad

109 students conducted independent research
Biology Facilities

4 Introductory teaching labs in Lightsey Center

2 Field labs at Stono Preserve
Biology Facilities

18 Advanced teaching labs in the newly renovated RITA Science Center (see example on right)

27 Student/faculty research labs in RITA

5 Lecture classrooms at RITA
Marine Biology Facilities

Grice Marine Laboratory (on right)
- 4 research labs
- 2 teaching labs
- 1 wet lab

1 CofC faculty member has their office and lab at the DNR laboratory

4 CofC faculty members have offices and labs at the Hollings Marine Lab
Department of Biology
Overview

Several Degree Options:
• BS in Biology
• BA in Biology
• BS in Biology with concentration in Molecular Biology
• BS in Marine Biology
• BS Teaching Option
• Minor in Biology

Familiarize yourself with the catalog and degree roadmaps available on the registrar’s page!

Interdisciplinary Minors:
• Neuroscience - http://cofc.edu/neuroscience
• Environmental and Sustainability Studies - http://cofc.edu/envminor
• Data Science- http://di.edu
• Archaeology - http://cofc.edu/archaeology
• Women’s and Gender Studies - http://wgs.cofc.edu/about/index.php
Upper level Biology Courses

- 204 Man and the Environment
- 221 Human Physiology L
- 222 Human Anatomy L
- 209 Marine Biology L
- 250 Special Topics in Biology
- 300 Botany L
- 301 Plant Taxonomy L
- 302 Plant Anatomy L
- 303 Phycology L
- 304 Plant Physiology L
- 310 General Microbiology L
- 312 Molecular Biology oL
- 313 Cell Biology oL
- 314 Immunology
- 320 Histology L
- 321 Gen and Comp Physiology L
- 322 Developmental Biology L
- 323 Comp Anatomy Vertebrates L
- 305 Genetics
- 333 Ornithology L
- 334 Herpetology L
- 335 Biology of Fishes L
- 336 Parasitology L
- 337 Invertebrate Zoology L
- 338 Entomology L
- 339 Dinosaur Biology

L = required lab    oL = optional lab
Department of Biology Overview

- 340 Zoogeography
- 341 General Ecology L
- 342 Oceanography L
- 343 Animal Behavior oL
- 350 Evolution
- 351 Principles of Neurobiology
- 352 Neurobiology and Behavior
- 353 Hormones and Behavior
- 354 Techniques in Neuroscience L
- 359 Study Abroad in Neuroscience
- 446 Special Topics in Neuroscience
- 447 Seminar in Neuroscience
- 356 Comparative Biomechanics L
- 396 Biophysical Modeling of Excitable Cells
- 406 Conservation Biology
- 412 Capstone in Molecular Biology
- 423 Genomics L
- 444 Plant Ecology L
- 449 Biology of Coral Reefs

- 381 Internship
- 397 Research Experience
- 399 Tutorial
- 450 Problems in Biology
- 451 Problems in Marine Biology
- 453/454 Special Topics
- 448 Bachelor’s Essay in Neuroscience
- 499 Bachelor’s Essay

L = required lab  oL = optional lab  ★ = undergraduate research/independent studies
https://math.cofc.edu/placement-testing/interpreting-your-aleks-score.php
BS in Biology

- BIOL 111/111L & 112/112L
- BIOL 211/211D
- BIOL 305

- 23 more hours of biology at the 300 level or above

  Four of which **MUST** be laboratory courses.

  Suggested tracks for 300 level courses are discussed in BIOL 211 & with major advisors.

**Other required classes:**

- General CHEM (111/111L and 112/112L or HONS 190/190L)
- Organic CHEM (231/231L, 232/232L)
- Physics (101/101L and 102/102L OR 111/111L and 112/112L)
- Calculus (MATH 120)
- Statistics (MATH 250)
Department of Biology
Overview

BS in Marine Biology

- BIOL 111/111L & 112/112L (or HONS 151/151L and 152/152L)
- BIOL 213/213D Marine Biodiversity, Ecology, and Conservation Biology
- BIOL 305 Genetics
- BIOL 342 Oceanography

One of the following courses:
- Biology of Fishes (335)
- Biology of Invertebrates (337)
- Phycology (303)

Complete at least 18 additional BIOL credits at the 300 level or above (must include 2 lab courses). 9 of these 18 credits must be from the marine biology course list (see catalog)

Complete all of the following:
- General Chem (111/111L, 112/112L)
- Organic Chem (221/221L) or Analytical Chem (220/220L)
- Physics 101/101L or 111/111L
- Calculus (Math 120)
- Statistics (Math 250 or equivalent)

Complete one of the following:
- Marine Geology (GEOL 107)
- Data Science (DATA 101)
- Organic Chem (221/221L or 231/231L) or Analytical Chem (220/220L)
- Physics 102/102L or 112/112L
BS in Biology with concentration in Molecular Biology

- BIOL 111/111L & 112/112L (or HONS 151/151L and 152/152L)
- BIOL 211/211D Biodiversity, Ecology, and Conservation Biology
- BIOL 305 Genetics

18 hours of biology at the 300 level or above, which must include:
  - Molecular Biology (312) but not the lab
  - Cell Biology (313 and 313L)
  - Capstone in Molecular Biology (412)

Other required classes:
- General Chemistry (111/111L, 112/112L)
- Organic Chemistry (231, 232 with labs)
- Biochemistry (351, 352 and labs)
- Physics 101, 102 OR 111, 112 (and labs)
- Calculus (Math 120)
- Statistics (Math 250 or equivalent)
Biology-Teacher Education Program (Grades 9-12)

- BIOL 111/111L & 112/112L (or HONS 151/151L and 152/152L)
- BIOL 211/211D (or 213/213D)
- BIOL 305 Genetics

19 more hours of biology at the 300 level or above, including 1 course from each group:
- cell or molecular (312 or 313)
- genetics, molecular, or cell biology lab (305L, 312L or 313L)
- physiology (304 or 321)
- plant biology (300, 302, 303, or 304)
- organismal biology (310, 322, 323, 332-338, 343/343L)

Other required classes:
- General CHEM (111/111L and 112/112L or HONS 190/190L)
- Organic CHEM (102/102L or 231/231L)
- Physics (101/101L and 102/102L or 111/111L and 112/112L)
- Calculus (MATH 120)
- Statistics (MATH 250)

Complete the [Secondary Education Cognate BS](#)
Department of Biology
Overview

BA in Biology

- Biol 111/111L & 112/112L
- Biol 211/211D
- BIOL 305

13 additional hours of biology; 9 of these must be at the 300 level or above. At least 3 biology courses with labs at the 200 level or above, 2 of which must be at the 300 level or above.

General Chemistry 101/101L, 102/102L or 111/111L, 112/112L
Statistics (Math 250 or equivalent)
Department of Biology Overview

- Biology Department Website > Undergraduate Programs

- Your Biology Advisor
Useful contacts in the Department of Biology

**Biology Office:** RITA 255; Telephone 843.953.5504 for questions about Declarations of major, advisor assignments, special enrollments, faculty mailboxes, registration issues; EMAIL biologyinfo@cofc.edu for all Biology-related questions!

**Associate Chair of Biology:** Dr. Scholtens Interim Associate Chair for 2021/2022. scholtensb@cofc.edu – Handles questions about courses, curriculum, graduation audits, transfer credits, study abroad, special circumstances.

**Pre-Professional and Health Advising:** Karen Eippert. SSMB 132; Telephone 843.953.6460; email eippertk@cofc.edu for questions about professional school requirements and admissions procedures, letters of reference, etc.

**Department Chair:** Dr. Eric McElroy. RITA 247; Telephone 843.953.5504; email: mcelroyc@cofc.edu