# Academic Map

**Biology - Marine Biology Track**

**Bachelor of Science**

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### Start Here

#### Semester 1 - Fall
- **Biol 1406 Biology I** 4
- **Chem 1411 General Chemistry I** 4
- **Univ 1101 University Seminar I** 1
- **University Core Curriculum** 3
- **University Core Curriculum** 3

**Total Credits: 15**

#### Summer 1
- **Math 2413 Calculus I** 4
- **University Core Curriculum** 3
- **University Core Curriculum** 3

**Total Credits: 10**

#### Semester 2 - Spring
- **Biol 1406 Biology II** 4
- **Chem 1411 General Chemistry II** 4
- **Univ 1101 University Seminar II** 1
- **University Core Curriculum** 3
- **University Core Curriculum** 3

**Total Credits: 15**

### Year 1

### Year 2

#### Semester 3 - Fall
- **Biol 2416 or Biol 2421 or Biol 2371 Genetics or Microbiology or Principles of Evolution** 3
- **Chem 3411 Organic Chemistry I** 4
- **Biol 2300 Science Communication** 3
- **University Core Curriculum** 3
- **University Core Curriculum** 3

**Total Credits: 16**

#### Semester 4 - Spring
- **Chem 3412 Organic Chemistry II** 4
- **Biol 2416 or Biol 2421 or Biol 2371 Genetics or Microbiology or Principles of Evolution** 4
- **University Core Curriculum** 3
- **Math 3342 Applied Probability and Statistics** 3

**Total Credits: 14**

### Year 3

#### Semester 5 - Fall
- **Biol 2416 or Biol 2421 or Biol 2371 Genetics or Microbiology or Principles of Evolution** 3
- **Biol 3428 Principles of Ecology** 4
- **Biol Core Topical Area Requirement** 4
- **Upper Level Biol Electives** 4

**Total Credits: 15**

#### Semester 6 - Spring
- **Biol 4336 Marine Ecology** 3
- **Mar Biol Ct Core Topical Requirement** 3
- **Biol Core Topical Area Requirement** 4

**Total Credits: 10**

### Year 4

#### Semester 7 - Fall
- **Biol Core Topical Requirement** 4
- **Mar Biol Ct Core Topical Requirement** 3
- **Upper Level Biol Electives** 4
- **Math Course** 3

**Total Credits: 14**

#### Semester 8 - Spring
- **Upper Level Biol Electives** 11

**Total Credits: 11**

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This is not an official degree plan. It is a guideline for planning your courses. To access a copy of this academic map please visit tamucc.edu/academics/planning/academic-advising/

**120 Credits | Finished!**
The biology program provides diverse training for careers in the biological sciences. The biology curriculum includes content courses required for teacher certification in life science, acceptance to post-graduate studies, and pre-professional studies in preparation for admission to professional schools.

Students will acquire content and skills to enter a variety of biology-related careers such as research, marine biology, wildlife and coastal management, environmental protection, laboratory technician, biotechnology industry, medical or environmental microbiology, technical writing, pharmaceutical sales, careers in the medical, dental, and allied health fields, and science education.

Field and laboratory courses emphasize the development of practical skills in using special materials and equipment. Focus is on enhancement of critical thinking skills, which will prepare the student for careers in the biological sciences as well as in other general areas of employment. The undergraduate biology degree has six tracks, fitting a wide variety of student interests and career goals. These tracks include: Cellular & Molecular Biology, Ecology, Integrative Biology, Marine Biology, Microbiology, Organismal Biology. The biology core provides students with a broad biological background and includes coursework in four key areas: mathematics, the chemistry of life/cell biology, form and function, and organismal biology. In each of these areas students select one course from a list of appropriate courses, depending on their interests and choice of biology career track. The biology career track areas are: (A) Ecology, (B) Marine Biology, (C) Cell/Molecular Biology, (D) Microbiology, (E) Organismal Biology and (F) Integrative Biology.