## Start Here

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

**Total Credits: 15**

### Semester 2 - Spring
- **Biol 1407 Biology II** 4
- **Chem 1412 General Chemistry II** 4
- **Univ 1101 University Seminar II** 1
- **Math 2413 Calculus I** 4
- **University Core Curriculum** 3

**Total Credits: 16**

### Semester 3 - Fall
- **Biol 2416 Genetics** 4
- **Chem 3411 Organic Chemistry I** 4
- **Engl 2316 or Engl 2332 or Engl 2333 Literature and Culture or Literature of the Western World: From the Classics to the Renaissance or Literature of the Western World: From the Enlightenment to the Present** 3
- **University Core Curriculum** 4

**Total Credits: 15**

### Semester 4 - Spring
- **Biol 2421 or Biol 2416 Microbiology or Genetics** 4
- **Biol 2401 Anatomy and Physiology I** 4
- **Biol 2371 or Biol 2416 Principles of Evolution or Genetics** 3
- **University Core Curriculum** 4

**Total Credits: 15**

### Semester 5 - Fall
- **Engl 2316 or Engl 2332 or Engl 2333 Literature and Culture or Literature of the Western World: From the Classics to the Renaissance or Literature of the Western World: From the Enlightenment to the Present** 3
- **Biol 3428 Principles of Ecology** 4
- **Smte 4270 Science Education Topics I** 3
- **Chemistry of Life/Cell Biology Requirement** 4
- **Organismal (Plant) Biology Requirement** 3

**Total Credits: 17**

### Semester 6 - Spring
- **Organismal (Animal) Biology Requirement** 4
- **Engl 3301 Technical and Professional Writing** 3
- **Chemistry of Life/Cell Biology Requirement** 4
- **Smte 4320 Secondary Science Laboratory Techniques** 3
- **Smte 4217 Secondary Approaches to the Life Sciences** 2

**Total Credits: 16**

### Semester 7 - Fall
- **Educ 4605 Planning, Teaching, Assessment and Technology** 6
- **Educ 4321 Instructional Design for Special Populations** 3
- **Upper Division Biology Elective** 3
- **Reading Course** 3

**Total Credits: 15**

### Semester 8 - Spring
- **Educ 4311 Classroom Management** 3
- **Educ 4995 Clinical Teaching** 9
- **Reading Course** 3

**Total Credits: 15**

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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/
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 preprofessional 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.