

# ACADEMIC MAP

## Organismal- Plant Biology, Bachelor of Science



First Year		
<b>Fall</b>		
BIOL 1406	Biology I	4
CHEM 1411	General Chemistry I	4
ENGL 1301	Writing and Rhetoric I	3
UNIV 1101	University Seminar I	1
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HIST 1301	U.S. History to 1865	3
or HIST 1302	or U.S. History Since 1865	
or HIST 2301	or Texas History	
<b>Hours</b>		<b>15</b>
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<b>Spring</b>		
BIOL 1407	Biology II	4
CHEM 1412	General Chemistry II	4
ENGL 1302	Writing and Rhetoric II	3
UNIV 1102	University Seminar II	1
HIST 1301	U.S. History to 1865	3
or HIST 1302	or U.S. History Since 1865	
or HIST 2301	or Texas History	
<b>Hours</b>		<b>15</b>
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<b>Summer</b>		
MATH 2413	Calculus I	4
<b>Hours</b>		<b>4</b>
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<b>Second Year</b>		
<b>Fall</b>		
CHEM 3411	Organic Chemistry I	4
BIOL 2416	Genetics	3-4
or BIOL 2421	or Microbiology	
or BIOL 2371	or Principles of Evolution	
ENGL 2316	Literature and Culture	3
or ENGL 2332	or Literature of the Western World: From the Classics to the Renaissance	
or ENGL 2333	or Literature of the Western World: From the Enlightenment to the Present	
or PHIL 1301	or Introduction to Philosophy	
or PHIL 2306	or Introduction to Ethics	
or SPAN 3307	or Spanish Literature I	
or SPAN 3308	or Spanish Literature II	
or SPAN 3309	or Spanish American Literature I	
or SPAN 3310	or Spanish American Literature II	
POLS 2305	U.S. Government and Politics	3
<b>Hours</b>		<b>13-14</b>
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<b>Spring</b>		
CHEM 3412	Organic Chemistry II	4
BIOL 2300	Science Communication	3
BIOL 2416	Genetics	3-4
or BIOL 2421	or Microbiology	
or BIOL 2371	or Principles of Evolution	
POLS 2306	State and Local Government	3
ARTS 1301	Art and Society	3
or ARTS 1303	or Art History Survey I	
or MEDA 1305	or Film and Culture	
or MUSI 1306	or Understanding and Enjoying Music	
or MUSI 1307	or Elements of Musical Style	
or THEA 1310	or Theatre Appreciation	
<b>Hours</b>		<b>16-17</b>

Third Year		
<b>Fall</b>		
BIOL 3428	Principles of Ecology	4
BIOL 2416	Genetics	3-4
or BIOL 2421	or Microbiology	
or BIOL 2371	or Principles of Evolution	
BIOL 3000:4999		3
BIOL 3000:4999		3
BIOL 3000:4999		3
<b>Hours</b>		<b>16-17</b>
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<b>Spring</b>		
BIOL 3455	Plant form and Function	4
BIOL 3479	Plant Ecology	4
BIOL 2472	Principles of Botany	4
MATH 3342	Applied Probability and Statistics	3
or BIOL 3325	or Biostatistics	
<b>Hours</b>		<b>15</b>
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<b>Fourth Year</b>		
<b>Fall</b>		
Biology Requirement		4
ECON 1301	Introduction to Economics	3
or ECON 2301	or Macroeconomics Principles	
or ECON 2302	or Microeconomics Principles	
or PSYC 2301	or General Psychology	
or SOCI 1301	or Introduction to Sociology	
BIOL 3000:4999		3
BIOL 3000:4999		3
Biology Requirement		4
<b>Hours</b>		<b>17</b>
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<b>Spring</b>		
BIOL 3000:4999		4
BIOL 3000:4999		4
BIOL 3000:4999		4
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>123-126</b>

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/](http://tamucc.edu/academics/planning/academic-advising/)



# CAREER MAP

## Biology-Organismal-Plant Biology Track *Bachelor of Science*



The Organismal Biology track focuses on the natural history, ecology, structure, and function of plants and/or animals. Students choosing this track will be preparing for careers that include, but are not limited to, wildlife management, fisheries, natural resource management, parks and recreation, biodiversity and conservation, habitat restoration, and agriculture or horticulture. This track also prepares students for graduate studies in biology, wildlife and fisheries sciences, wildlife management, forestry, or taxonomy and systematics. 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.

### CONTACT INFORMATION

**Career Counselor:**

Career and Professional Development Center  
UC 304 | 361.825.2628  
career.center@tamucc.edu

**Internship Coordinator:**

Dr. Kim Withers  
NRC 3205 | 361.825.5907  
kim.withers@tamucc.edu

**Department Contact:**

Department of Life Sciences  
NRC 3205 | 361.825.5907  
kim.withers@tamucc.edu

### CAREER OPTIONS

- Botanist
- Plant Biologist
- Conservation Scientist
- Horticulturist
- Environmental Consultant
- Park Ranger/Naturalist
- Plant Pathologist
- Seed Analyst
- Ecologist

### ADDITIONAL PROGRAM REQUIREMENTS

Students must complete a minimum of 32 additional hours in one of the Biology Career Tracks to earn the 120 hours necessary for graduation. A minimum of 45 hours of upper-division credit (courses numbered 3000 or 4000) is required to graduate. A minimum grade point average of 2.5 in the major field of study (biology core + biology track) is required to graduate. No "D" or "F" grades will be accepted as credit within the biology core or biology track courses.

All students in the Organismal Biology track must take BIOL 4330 Conservation Biology

### SKILLS/ATTRIBUTES

- Communication Skills
- Research
- Ability to use scientific equipment and organize and maintain accurate records.
- Aptitude for scientific inquiry and problem solving.
- Ability to organize, analyze and interpret scientific data.
- Conduct and clearly explain scientific research.
- Teamwork

### STUDENT ORGANIZATIONS

- American Cetacean Society Student Coalition
- SACNAS Chapter at TAMU-CC
- Pre-Dental Society
- American Medical Student Association
- American Fisheries Society
- Islander Green Team
- Health Sciences Association
- Student Council of Math and Science Teachers