



Bachelor of Science

# BIOLOGY, PREPROFESSIONAL PLAN

Degree Map | 2020-2024

	YOUR CLASS SCHEDULE	ACADEMIC ADVISING	ENRICHING EXPERIENCES	LIFELONG SUCCESS
Freshman	<ul style="list-style-type: none"> <li>Complete at least 30 hours during your freshman year.</li> <li>Pass ALL courses with a C or better.</li> <li>Make sure that you have the prerequisites for a course before you enroll.</li> <li>Pass all prerequisite courses with a C or better.</li> </ul>	<ul style="list-style-type: none"> <li>Participate in New Student Orientation</li> <li>Meet with your Academic Advising Center Freshman Advisor before registration.</li> <li>Register for classes as soon as you are able to.</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>Participate in campus recreation</li> <li>Attend Financial Literacy seminars</li> <li>Form healthy study habits</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>Use FalconLink &amp; attend Club Day</li> <li>Attend campus events</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>Attend an athletics event, musical performance, or visit the art gallery</li> <li>Read books for enjoyment.</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>Draft your resume</li> <li>Register for the Job Board</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>Attend the Pre-Health Professions Information Session for freshmen and transfer students during the Fall Semester.</li> <li>Meet with your instructors during their office hours: These individuals may be writing recommendation letters for you in the future.</li> </ul>
Sophomore	<ul style="list-style-type: none"> <li>Complete at least 30 hours during your sophomore year.</li> <li>Pass all courses with a C or better.</li> <li>Make sure that you have the prerequisites for each of your courses and that you have passed these prerequisites with a C or better.</li> </ul>	<ul style="list-style-type: none"> <li>Meet with your Academic Advising Center Sophomore Advisor before registration.</li> <li>Register for classes as soon as you are able to.</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>Enjoy outdoor spaces on campus</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>Join an organization (ex: Biology Club)</li> <li>Explore campus leadership (SGA, Orientation Leader, Resident Asst.)</li> <li>Volunteer at a local hospital or other health related organization</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>Attend a lecture series</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>Update your resume &amp; join LinkedIn</li> <li>Consider student employment</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>Participate in mock interviews</li> <li>Research professional schools in your area of interest (medical, dental, etc.). Review prerequisite requirements for admission.</li> <li>Inform yourself about healthcare issues related to your area of interest.</li> <li>Shadow a professional in your area of interest</li> </ul>
Junior	<ul style="list-style-type: none"> <li>Complete at least 30 hours during your junior year.</li> <li>Pass all courses with a C or better.</li> <li>Make sure that you have the prerequisites for each of your courses and that you have passed these prerequisites with a C or better.</li> </ul>	<ul style="list-style-type: none"> <li>Meet with your Biology Advisor as soon as you have been assigned one.</li> <li>Consult with your Biology Advisor before registration. Make sure you are on track, taking the right courses for graduation on time.</li> <li>Register for classes as soon as you are able to.</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>Attend a health fair</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>Run for organization officer role</li> <li>Apply to be a Falcon Ambassador</li> <li>Serve as a Success Center tutor or SI leader for General Biology.</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>Consider study abroad</li> <li>Participate in service learning</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>Update your resume</li> <li>Talk to your Biology professors about doing research as a senior</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>Begin studying for the standardized test (MCAT, DAT, OAT, PCAT, etc.) in your area interest at least six months before you take the exam.</li> <li>Take the exam when you feel prepared (spring or summer)</li> </ul>
Senior	<ul style="list-style-type: none"> <li>Complete at least 30 hours during your senior year.</li> <li>Pass all courses with a C or better.</li> <li>Make sure that you have the prerequisites for each of your courses and that you have passed these prerequisites with a C or better.</li> </ul>	<ul style="list-style-type: none"> <li>Check with your Biology Advisor early in the fall semester to make sure you are on track to complete all requirements for graduation.</li> <li>Consult with your Biology Advisor before registration. Register for classes as soon as you are able.</li> <li>Apply for graduation at the beginning of the spring semester and give your Biology Advisor a copy of your Degree Check.</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>Attend financial literacy seminars</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>Attend your ring ceremony</li> <li>Join Alumni Association upon graduation</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>Take BIOL 3196 and assist an instructor in one of the labs.</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>Update your resume</li> <li>Do research and present results at a conference. Apply for an Undergraduate Research Award</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>Apply for admission &amp; financial support to schools of your choice</li> </ul>

UTPB students will graduate with these skills:

- Empirical and Quantitative Skills
- Adaptability
- Communication
- Planning and Organization
- Research
- Teamwork
- Critical Thinking

Career opportunities:

- Physician
- Dentist
- Physician Assistant
- Podiatrist

- Biomedical Researcher
- Optometrist
- Chiropractor



Bachelor of Science

# BIOLOGY, PRE-PROFESSIONAL PLAN

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## Bachelor of Science in Biology, Pre-Professional Plan

### Semester 1

BIOL 1306/1106 General Biology I  
CHEM 1311/1111 General Chemistry I  
ENGL 1301 Composition I  
MATH 2413 Calculus I  
UNIV 1101 Freshman Seminar

**16 hours**

### Semester 2

BIOL 1307/1107 General Biology II  
CHEM 1312/1112 General Chemistry II  
ENGL 1302 Composition II  
MATH 2414 Calculus II

**15 hours**

### Semester 3

CHEM 3311/3113 Organic Chemistry I  
PHYS 2325/2125 University Physics I  
BIOL elective, such as BIOL 3350/3151  
ENGL 2300 Level Literature Elective

**14-15 hours**

### Semester 4

CHEM 3312/3114 Organic Chemistry II  
PHYS 2326/2126 University Physics II  
BIOL 3300/3101 Microbiology OR  
BIOL 3324/3125 Cell Biology  
COSC 1335 Computers and Problem Solving  
BIOL 3197 Pre-professional Seminar

**16 hours**

### Semester 5

BIOL 4320 Biochemistry  
BIOL 3310/3111 Invertebrate Zoology OR  
BIOL 4340/4340R/4141 Genetics  
Social/Behavioral Sciences General Education course  
MATH 3301 Statistics  
COMM 1315 Introduction to Public Speaking

**16 hours**

### Semester 6

BIOL 4352/4153 Animal Physiology  
3312/3113 Vertebrate Zoology OR  
BIOL 4340/4340R/4141 Genetics  
ENGL 3000 Level Elective  
Creative Arts General Education course

**14 hours**

### Semester 7

BIOL elective OR BIOL 4342 Evolution  
CHEM 3324/3125 Analytical Chemistry  
HIST 1301 U.S. History  
PLSC 2305 American National Politics  
BIOL 3196 or 4395 BIOL elective

**15-16 hours**

### Semester 8

BIOL elective OR BIOL 4342 Evolution  
NTSC 4311 History and Philosophy of Science  
HIST 1302 U.S. History  
PLSC 2306 State and Local Politics  
BIOL 3196 or 4395 BIOL elective

**14-15 hours**