



Bachelor of Science

# BIOLOGY, SCIENCE CERTIFICATION

GRADES 4-8 GEOLOGY MINOR

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>•Talk with your advisor about the certification process.</li> <li>• Register for classes as soon 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>• Volunteer</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>• Explore career options</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>•Talk with your advisor about the certification process.</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 to tutor students at a local school or community org.</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</li> <li>• 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>• Complete the requirements for admission to the certification program.</li> <li>• Apply for admission to the Teacher Preparation Program during the spring semester.</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>•Meet with your Certification Advisor in the College of Education.</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> </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> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Meet with your Education professors. Ask about their research and experiences.</li> <li>• Begin preparing for the Science 4-8 and PPR TExES exams.</li> </ul>
Senior	<ul style="list-style-type: none"> <li>• Complete the remaining hours for your degree during your senior year.</li> <li>•Pass all courses with a C or better.</li> <li>•Make sure 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>•Meet with your Certification Advisor about your progress in the certification process.</li> <li>•Consult with your Biology Advisor before registration. Register for classes as soon as you are able to.</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>• Consider study abroad (summer prior to senior year)</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Update your resume</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Complete the requirements for Student Teaching during the fall semester.</li> <li>• Pass the Science 4-8 and PPR TExES exams by the end of the spring semester.</li> <li>• Apply for certification at the end of the spring semester.</li> <li>• Apply for teaching positions for the fall.</li> </ul>

## UTPB students will graduate with these skills:

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

## Career opportunities:

- Elementary or Middle School Science Teacher
- Science Educator for nonprofit organization



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## Bachelor of Science in Biology, Grades 4-8 Certification Plan

### Semester 1

BIOL 1306/1106 General Biology I  
 PSYC 1301 Introduction to Psychology  
 MATH 1314 College Algebra  
 COMM 1315 Introduction to Public Speaking  
 GEOL 1301/1101 Physical Geology  
 UNIV 1101 Freshman Seminar

**18 hours**

### Semester 2

BIOL 1307/1107 General Biology II  
 PSYC 3341 Child/Adolescent Psychology  
 MATH 1350 Elementary Math I  
 EDUC 3352 The Exceptional Child  
 GEOL 1302/1102 Historical Geology

**17 hours**

### Semester 3

CHEM 1311/1111 General Chemistry I  
 3000 Level BIOL elective  
 3000 Level GEOL elective  
 MATH 2350 Elementary Math II OR Precalculus  
     MATH 2412 Precalculus  
 ENGL 1301 Composition I

**17-18 hours**

### Semester 4

CHEM 1312/1112 General Chemistry II  
 3000 Level BIOL elective  
 BIOL 3372 Ecology  
 EDUC 4362 Foundations of Bilingualism  
     or Multiculturalism  
 ENGL 1302 Composition II

**18 hours**

**Summer:** 2000 Level ENGL elective

### Semester 1

CHEM 3311/3113 Organic Chemistry I  
 BIOL 4340/4340R Genetics or  
     EDUC 4326 Reading in the Content Area  
 EDUC 4321 Classroom Instruction and Management  
 HIST 1301 U.S. History to 1877  
 3000 Level GEOL elective

**16-17 hours**

### Semester 2

BIOL 3300/3101 Microbiology OR BIOL 3324/3124 Cell  
     Biology  
 BIOL 4340/4340R Genetics or  
     EDUC 4326 Reading in the Content Area  
 EDUC 4325 Reading in the Middle Grades  
 HIST 1302 U.S. History since 1877  
 3000 or 4000 GEOL elective

**16-17 hours**

**Summer:** PLSC 2305 American National Politics and PLSC 2306 State and Local Politics **6 hours**

### Semester 3

BIOL 4342 Evolution  
 PHYS 1301/1101 College Physics I  
 NTSC 4311 History and Philosophy of Science  
 EDUC 4374 Teaching Mathematics and Science: Grades 4-8  
 3000 or 4000 Level BIOL elective

**16-17 hours**

### Semester 4

EDUC 4682 Student Teaching  
 EDUC 4099 Seminar: Student Teaching  
 COSC 1335 Computers and Problem Solving  
 Creative Arts General Education course

**12 hours**