



Bachelor of Science

# BIOLOGY, SCIENCE CERTIFICATION

GRADES 4-8 CHEMISTRY 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 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>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.</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  
 MATH 1314 College Algebra  
 PSYC 1301 Introduction to Psychology  
 ENGL 1301 Composition I  
 COMM 1315 Introduction to Public Speaking  
 UNIV 1101 Freshman Seminar

**17 hours**

### Semester 2

BIOL 1307/1107 General Biology II  
 MATH 1350 Elementary Math I  
 PSYC 3341 Child/Adolescent Psychology  
 ENGL 1302 Composition II  
 EDUC 3352 The Exceptional Child

**16 hours**

### Semester 3

CHEM 1311/1111 General Chemistry I  
 HIST 1301 U.S. History to 1877  
 PHYS 1301/1101 College Physics I  
 MATH 2350 OR MATH 2412  
 3000 Level BIOL elective

**17-18 hours**

### Semester 4

CHEM 1312/1112 General Chemistry II  
 HIST 1302 U.S. History since 1877  
 EDUC 4362 Foundations of Bilingualism  
 or Multiculturalism  
 3000 level BIOL elective  
 BIOL 3372 Ecology

**17 hours**

### Semester 5

CHEM 3311/3113 Organic Chemistry I  
 PLSC 2305 American National Politics  
 2000 Level ENGL Elective  
 BIOL 4340/4340R Genetics OR  
 EDUC 4326 Reading in the Content Area  
 EDUC 4321 Classroom Instruction  
 and Management

**16 hours**

### Semester 6

CHEM 3312/3114 Organic Chemistry II  
 PLSC 2306 State and Local Politics  
 EDUC 4325 Reading in the Middle Grades  
 EDUC 4326 Reading in the Content Areas OR  
 BIOL 4340/4340R Genetics  
 BIOL 3300/3101 Microbiology OR  
 BIOL 3324/3125 Cell Biology

**17 hours**

### Semester 7

CHEM 3324/3125 Analytical Chemistry  
 NTSC 4311 History and Philosophy of Science  
 BIOL 4342 Evolution  
 EDUC 4374 Teaching Mathematics  
 and Science: Grades 4-8  
 3000 Level BIOL elective

**16-17 hours**

### Semester 8

EDUC 4099 Seminar: Student Teaching  
 EDUC 4682 Student Teaching: Grades 4-8  
 COSC 1335 Computers and Problem Solving  
 Creative Arts General Education course

**12 hours**