



Bachelor of Science

BIOLOGY, LIFE SCIENCE CERTIFICATION

GRADES 7-12 (SCIENCE CERTIFICATION OPTION)

Degree Map | 2020-2024

| | YOUR CLASS SCHEDULE | ACADEMIC ADVISING | ENRICHING EXPERIENCES | LIFELONG SUCCESS |
|----------|---|---|--|---|
| Freshman | <ul style="list-style-type: none"> Complete at least 30 hours during your freshman year. Pass ALL courses with a C or better. Make sure that you have the prerequisites for a course before you enroll. Pass all prerequisite courses with a C or better. | <ul style="list-style-type: none"> Participate in New Student Orientation Meet with your Academic Advising Center Freshman Advisor before registration. Talk with your advisor about the certification process. Register for classes as soon as you are able to. | <p>Prioritize Your Wellness</p> <ul style="list-style-type: none"> Participate in campus recreation Attend Financial Literacy seminars Form healthy study habits <p>Build Your Community</p> <ul style="list-style-type: none"> Use FalconLink & attend Club Day Volunteer Attend campus events <p>Explore Your World</p> <ul style="list-style-type: none"> Attend an athletics event, musical performance, or visit the art gallery Read books for enjoyment. | <p>Build Your Brand</p> <ul style="list-style-type: none"> Draft your resume Register for the Job Board <p>Craft Your Future</p> <ul style="list-style-type: none"> Explore career options Meet with your instructors during their office hours: These individuals may be writing recommendation letters for you in the future. |
| | <ul style="list-style-type: none"> Complete at least 30 hours during your sophomore year. Pass all courses with a C or better. Make sure that you have the prerequisites for each of your courses and that you have passed these prerequisites with a C or better. | <ul style="list-style-type: none"> Meet with your Academic Advising Center Sophomore Advisor before registration. Talk with your advisor about the certification process. Register for classes as soon as you are able to. | <p>Prioritize Your Wellness</p> <ul style="list-style-type: none"> Enjoy outdoor spaces on campus <p>Build Your Community</p> <ul style="list-style-type: none"> Join an organization (ex: Biology Club) Explore campus leadership (SGA, Orientation Leader, Resident Asst.) Volunteer to tutor students at a local school or community org. <p>Explore Your World</p> <ul style="list-style-type: none"> Attend a lecture series | <p>Build Your Brand</p> <ul style="list-style-type: none"> Update your resume Join LinkedIn Consider student employment <p>Craft Your Future</p> <ul style="list-style-type: none"> Participate in mock interviews Complete the requirements for admission to the certification program. Apply for admission to the Teacher Preparation Program during the spring semester. |
| | <ul style="list-style-type: none"> Complete at least 30 hours during your junior year. Pass all courses with a C or better. Make sure that you have the prerequisites for each of your courses and that you have passed these prerequisites with a C or better. | <ul style="list-style-type: none"> Meet with your Biology Advisor as soon as you have been assigned one. Meet with your Certification Advisor in the College of Education. Register for classes as soon as you are able to. | <p>Prioritize Your Wellness</p> <ul style="list-style-type: none"> Attend a health fair <p>Build Your Community</p> <ul style="list-style-type: none"> Run for organization officer role Apply to be a Falcon Ambassador <p>Explore Your World</p> <ul style="list-style-type: none"> Consider study abroad Participate in service learning | <p>Build Your Brand</p> <ul style="list-style-type: none"> Update your resume <p>Craft Your Future</p> <ul style="list-style-type: none"> Meet with your Education professors. Ask about their research and experiences. Begin preparing for the Life Science (or Science) and PPR TExES exams. |
| | <ul style="list-style-type: none"> Complete the remaining hours for your degree during your senior year. Pass all courses with a C or better. Make sure you have the prerequisites for each of your courses and that you have passed these prerequisites with a C or better. | <ul style="list-style-type: none"> Check with your Biology Advisor early in the fall semester to make sure you are on track to complete all requirements for graduation. Meet with your Certification Advisor about your progress in the certification process. Consult with your Biology Advisor before registration. Register for classes as soon as you are able to. Apply for graduation at the beginning of the spring semester and give your Biology Advisor a copy of your Degree Check. | <p>Prioritize Your Wellness</p> <ul style="list-style-type: none"> Attend financial literacy seminars <p>Build Your Community</p> <ul style="list-style-type: none"> Attend your ring ceremony Join Alumni Association upon graduation <p>Explore Your World</p> <ul style="list-style-type: none"> Consider study abroad (summer prior to senior year) | <p>Build Your Brand</p> <ul style="list-style-type: none"> Update your resume <p>Craft Your Future</p> <ul style="list-style-type: none"> Complete the requirements for Student Teaching during the fall semester. Pass the Life Science 7-12 (or Science 7-12) and PPR TExES exams by the end of the spring semester. Apply for certification at the end of the spring semester. Apply for teaching positions for the fall. |

UTPB students will graduate with these skills:

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

Career opportunities:

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



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Bachelor of Science in Biology, Grades 7-12 Certification Plan

Semester 1

BIOL 1306/1106 General Biology I
 PSYC 1301 Introduction to Psychology
 ENGL 1301 Composition I
 HIST 1301 U.S. History to 1877
 COMM 1315 Introduction to Public Speaking
 UNIV 1101 Freshman Seminar

17 hours

Semester 2

BIOL 1307/1107 General Biology II
 PSYC 3341 Child/Adolescent Psychology
 ENGL 1302 Composition II
 HIST 1302 U.S. History since 1877
 EDUC 3352 The Exceptional Child

16 hours

Semester 3

CHEM 1311/1111 General Chemistry I
 MATH 2413 Calculus I
 ENGL 2300 Level Elective
 BIOL 3000 Level Elective

16 hours

Semester 4

CHEM 1312/1112 General Chemistry II
 MATH 2414 Calculus II
 EDUC 4362 Foundations of Bilingualism or Multiculturalism
 BIOL 3000 Level Elective
 BIOL 3372 Ecology

18 hours

Semester 5

CHEM 3311/3113 Organic Chemistry I
 PLSC 2305 American National Politics
 BIOL 4340/4340R Genetics
 OR EDUC 4326 Reading in the Content Areas
 EDUC 4322 Classroom Instruction and Management ()
 GEOL 1301/1101, PHYS 1301/1101, OR PHYS 2325/2125
 (Science Certification option ONLY)

13-17 hours

Semester 6

CHEM 3312/3114 Organic Chemistry II
 PLSC 2306 State and Local Politics
 EDUC 4326 Reading in the Content Areas OR
 BIOL 4340/4340R Genetics
 BIOL 3300/3101 Microbiology OR
 BIOL 3324/3125 Cell Biology
 GEOL 1302/1102, PHYS 1302/1102, OR PHYS 2326/2126
 (Science Certification option ONLY)

14-18 hours

Summer (Science Certification Option ONLY): GEOL 1301/1101 OR PHYS 1301/1101 OR PHYS 2325/2125

4 hours

Semester 7

CHEM 3324/3125 Analytical Chemistry
 NTSC 4311 History and Philosophy of Science
 BIOL 4342 Evolution
 EDUC 4376 Teaching Science: Grades 7-12
 BIOL 3310/3111, 3350/3151, 3352/3153, OR 4354 BIOL elective

16-17 hours

Semester 8

EDUC 4099 Seminar: Student Teaching
 EDUC 4385 Student Teaching: Grades 7-12
 Creative Arts General Education course
 COSC 1335 Computers and Problem Solving

12 hours