



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 Sophomore Junior Senior	<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 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