



Bachelor of Science

BIOLOGY, MOLECULAR BIOLOGY TRACK

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. 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 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.
Sophomore	<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. 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.) Serve as a judge for the Permian Basin Regional Science Fair in the spring. <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 Research graduate schools in your area of interest. Review prerequisite requirements for admission. Keep up with science news in your area of interest.
Junior	<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. Consult with your Biology Advisor before registration. Make sure you are on track, taking the right courses for graduation on time. Register for classes as soon as you are able to. Talk with your Biology Advisor about graduate school. 	<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 Serve as a Success Center tutor or SI leader for General Biology. <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 Talk to your Biology professors about doing research as a senior <p>Craft Your Future</p> <ul style="list-style-type: none"> Go to the Graduate School Fair on campus. Begin studying for the GRE General and GRE Biology Tests. Take the exam when you feel prepared (spring or summer)
Senior	<ul style="list-style-type: none"> Complete at least 30 hours during your senior 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"> Check with your Biology Advisor early in the fall semester to make sure you are on track to complete all requirements for graduation. 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"> Take BIOL 3196 and assist an instructor in one of the labs. 	<p>Build Your Brand</p> <ul style="list-style-type: none"> Update your resume Do research and present results at a conference. Apply for an Undergraduate Research Award <p>Craft Your Future</p> <ul style="list-style-type: none"> Apply for admission & financial support to schools of your choice Identify professors who might want to work with. Email them, introduce yourself, and ask about their research. Be prepared to explain your research project.

UTPB students will graduate with these skills:

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

Career opportunities:

- Biomedical Scientist
- Epidemiologist
- Biochemist
- Biomedical Engineer
- Genetic Counselor
- Microbiologist



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Bachelor of Science in Biology, Molecular Biology Track

Semester 1

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

16 hours

Semester 2

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

15 hours

Semester 3

CHEM 3311/3113 Organic Chemistry I
PHYS 2325/2125 University Physics I
MATH 3301 Statistics
ENGL 2300 Literature Elective
COMM 1315 Introduction to Public Speaking

17 hours

Semester 4

CHEM 3312/3114 Organic Chemistry II
PHYS 2326/2126 University Physics II
BIOL 3300/3101 Microbiology
COSC 1335 Computers and Problem Solving

15 hours

Semester 5

BIOL 4320 Biochemistry
ENGL 3000 Level Elective
BIOL 4340/4340R/4141 Genetics OR
BIOL 3310/3111 Invertebrate Zoology
PLSC 2305 American National Politics
Social/Behavioral Sciences General Education course

16 hours

Semester 6

BIOL 3324/3125 Cell Biology
BIOL 4352/4153 Animal Physiology
BIOL 4340/4340R/4141 Genetics OR
BIOL 3312/3113 Vertebrate Zoology
PLSC 2306 State and Local Politics

15 hours

Semester 7

BIOL 4322 Molecular Biology
BIOL 4303 Nutrition OR BIOL 4362 Histology
HIST 1301 U.S. History I
Creative Arts General Education course
BIOL 3196 or 4395 BIOL elective

14-15 hours

Semester 8

BIOL 4342 Evolution
BIOL 4301 Virology OR BIOL 4323 Immunology
HIST 1302 U.S. History II
NTSC 4311 History and Philosophy of Science
BIOL 3196 or 4395 BIOL elective

14-15 hours