## Bachelor of Science
### BIOLOGY, MOLECULAR BIOLOGY TRACK
#### Degree Map | 2020-2024

### YOUR CLASS SCHEDULE

<table>
<thead>
<tr>
<th>Level</th>
<th>Requirements</th>
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</table>
| Freshman | • 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. |
| Sophomore | • 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. |
| Junior | • 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. |
| Senior | • 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. |

### ACADEMIC ADVICING

<table>
<thead>
<tr>
<th>Level</th>
<th>Requirements</th>
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| Freshman | • Participate in New Student Orientation  
• Meet with your Academic Advising Center Freshman Advisor before registration.  
• Register for classes as soon as you are able to. |
| Sophomore | • Meet with your Academic Advising Center Sophomore Advisor before registration.  
• Register for classes as soon as you are able to. |
| Junior | • 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. |

### ENRICHING EXPERIENCES

<table>
<thead>
<tr>
<th>Level</th>
<th>Requirements</th>
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</table>
| Freshman | Prioritize Your Wellness  
• Participate in campus recreation  
• Attend Financial Literacy seminars  
• Form healthy study habits  
**Build Your Community**  
• Use FalconLink & attend Club Day  
• Attend campus events  
**Explore Your World**  
• Attend an athletics event, musical performance, or visit the art gallery  
• Read books for enjoyment. |
| Sophomore | Prioritize Your Wellness  
• Enjoy outdoor spaces on campus  
**Build Your Community**  
• 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.  
**Explore Your World**  
• Attend a lecture series |
| Junior | Prioritize Your Wellness  
• Attend a health fair  
**Build Your Community**  
• Run for organization officer role  
• Apply to be a Falcon Ambassador  
• Serve as a Success Center tutor or SI leader for General Biology.  
**Explore Your World**  
• Consider study abroad  
• Participate in service learning. |

### LIFELONG SUCCESS

<table>
<thead>
<tr>
<th>Level</th>
<th>Requirements</th>
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</thead>
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| Freshman | **Build Your Brand**  
• Draft your resume  
• Register for the Job Board  
**Craft Your Future**  
• Explore career options  
• Meet with your instructors during their office hours: These individuals may be writing recommendation letters for you in the future. |
| Sophomore | **Build Your Brand**  
• Update your resume  
• Join LinkedIn  
• Consider student employment  
**Craft Your Future**  
• 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 | **Build Your Brand**  
• Update your resume  
• Talk to your Biology professors about doing research as a senior  
**Craft Your Future**  
• 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 | **Build Your Brand**  
• Update your resume  
• Do research and present results at a conference. Apply for an Undergraduate Research Award  
**Craft Your Future**  
• 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
- Communication
- Planning and Organization
- Research
- Teamwork
- Critical Thinking

### Career opportunities:
- Biomedical Scientist
- Epidemiologist
- Biochemist
- Biomedical Engineer
- Genetic Counselor
- Microbiologist
### Bachelor of Science in Biology, Molecular Biology Track

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td>SEMESTER 1</td>
</tr>
<tr>
<td></td>
<td>BIOL 1306/1106 General Biology I</td>
</tr>
<tr>
<td></td>
<td>CHEM 1311/1111 General Chemistry I</td>
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<tr>
<td></td>
<td>MATH 2413 Calculus I</td>
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<td></td>
<td>ENGL 1301 Composition I</td>
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<td></td>
<td>UNIV 1101 Freshman Seminar</td>
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<tr>
<td></td>
<td><strong>16 hours</strong></td>
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<td><strong>Semester 3</strong></td>
<td>SEMESTER 3</td>
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<tr>
<td></td>
<td>CHEM 3311/3113 Organic Chemistry I</td>
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<td>PHYS 2325/2125 University Physics I</td>
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<td>MATH 3301 Statistics</td>
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<td></td>
<td>ENGL 2300 Literature Elective</td>
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<td></td>
<td>COMM 1315 Introduction to Public Speaking</td>
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<td><strong>17 hours</strong></td>
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<td><strong>Semester 5</strong></td>
<td>SEMESTER 5</td>
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<tr>
<td></td>
<td>BIOL 4320 Biochemistry</td>
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<td></td>
<td>ENGL 3000 Level Elective</td>
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<tr>
<td></td>
<td>BIOL 4340/4340R/4141 Genetics OR</td>
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<td></td>
<td>BIOL 3310/3111 Invertebrate Zoology</td>
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<td></td>
<td>PLSC 2305 American National Politics</td>
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<td></td>
<td>Social/Behavioral Sciences General Education course</td>
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<td><strong>16 hours</strong></td>
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<td><strong>Semester 7</strong></td>
<td>SEMESTER 7</td>
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<tr>
<td></td>
<td>BIOL 4322 Molecular Biology</td>
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<td></td>
<td>BIOL 4303 Nutrition OR BIOL 4362 Histology</td>
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<td>HIST 1301 U.S. History I</td>
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<td></td>
<td>Creative Arts General Education course</td>
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<td></td>
<td>BIOL 3196 or 4395 BIOL elective</td>
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<td></td>
<td><strong>14-15 hours</strong></td>
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