## Bachelor of Science in CHEMISTRY/Bio-Chemistry
### Degree Map | 2019-2020

### YOUR CLASS SCHEDULE

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enroll in General Chemistry I and General Chemistry II series</td>
<td>Enroll in Organic Chemistry I and Organic Chemistry II series</td>
<td>Enroll in Analytical Chemistry</td>
<td>Complete Degree Plan Completion Audit</td>
</tr>
<tr>
<td>Focus on English and Math General Education Courses</td>
<td>Enroll in Introduction to Research</td>
<td>Enroll Continue Introduction to Research</td>
<td>Enroll in Inorganic Chemistry</td>
</tr>
<tr>
<td>Enroll in 15-18 credit hours Fall and Spring semester if possible, and 3-6 credit hours during the Summer term.</td>
<td>Enroll in 15-18 credit hours Fall and Spring semester, and 3-6 credit hours during the Summer term.</td>
<td>Enroll in 12-16 credit hours Fall and Spring semester</td>
<td>Enroll in 12-16 credit hours Fall and Spring semester</td>
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</table>

### ACADEMIC ADVISING

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Make appointment with Academic Advisor each semester</td>
<td>Make appointment with Academic Advisor each semester</td>
<td>Make appointment with Faculty Mentor before registration</td>
<td>Complete Degree Plan Completion Audit</td>
</tr>
<tr>
<td>Attend UTPB workshops</td>
<td>Participate in academic advising with Chemistry faculty member each semester</td>
<td>Complete research hours, volunteering in schools</td>
<td>Complete research hours, volunteering in schools</td>
</tr>
<tr>
<td>Review your degree map and plan your college experience</td>
<td>Complete requirements to successfully pass Sophomore Music Barrier</td>
<td>Participate in recruiting activities with Chemistry Faculty</td>
<td>Participate in recruiting activities with Chemistry Faculty</td>
</tr>
<tr>
<td>Meet your Faculty Mentor</td>
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### ENRICHING EXPERIENCES

<table>
<thead>
<tr>
<th>Freshman</th>
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</thead>
<tbody>
<tr>
<td>Prioritize Your Wellness:</td>
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</tr>
<tr>
<td>Participate in campus recreation</td>
<td>Enjoy outdoor spaces on campus</td>
<td>Attend a health fair</td>
<td>Attend financial literacy seminars</td>
</tr>
<tr>
<td>Attend Financial Literacy seminars</td>
<td>Join an organization (ex: ACS)</td>
<td>Build Your Community</td>
<td>Form healthy study habits</td>
</tr>
<tr>
<td>Form healthy study habits</td>
<td>Explore campus leadership (SGA, Orientation Leader, Resident Asst.)</td>
<td>Use FalconLink &amp; attend Club Day</td>
<td>Volunteer</td>
</tr>
<tr>
<td>Build Your Community</td>
<td>Participate in STEM activities on/off campus</td>
<td>Attend campus events</td>
<td>Attend an athletics event, musical performance, or visit the art gallery</td>
</tr>
<tr>
<td>Use FalconLink &amp; attend Club Day</td>
<td>Become a Peer Leader or Mentor</td>
<td>Explore Your World</td>
<td></td>
</tr>
<tr>
<td>Volunteer</td>
<td>Attend Undergraduate Research Day</td>
<td>Explore Your World</td>
<td></td>
</tr>
<tr>
<td>Attend campus events</td>
<td></td>
<td>Consider study abroad</td>
<td></td>
</tr>
<tr>
<td>Attend an athletics event, musical performance, or visit the art gallery</td>
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<td>Attend UTPB Chemistry workshops and visiting lectures</td>
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</table>

### LIFELONG SUCCESS

<table>
<thead>
<tr>
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<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build Your Brand:</td>
<td>Build Your Brand:</td>
<td>Build Your Brand:</td>
<td>Build Your Brand:</td>
</tr>
<tr>
<td>Draft your resume</td>
<td>Update your resume</td>
<td>Update your resume</td>
<td>Update your resume</td>
</tr>
<tr>
<td>Register for the Job Board</td>
<td>Join LinkedIn</td>
<td>Join LinkedIn</td>
<td>Join LinkedIn</td>
</tr>
<tr>
<td>Attend Undergraduate Research Day</td>
<td>Consider student employment</td>
<td>Consider student employment</td>
<td>Consider student employment</td>
</tr>
<tr>
<td>Craft Your Future:</td>
<td>Apply for Undergraduate Research Program</td>
<td>Apply for Undergraduate Research Program</td>
<td>Build Your Brand</td>
</tr>
<tr>
<td>Explore career options</td>
<td>Craft Your Future:</td>
<td>Craft Your Future:</td>
<td></td>
</tr>
<tr>
<td>Complete Chemical Safety/Lab Training</td>
<td>Participate in mock interviews</td>
<td>Participate in mock interviews</td>
<td></td>
</tr>
<tr>
<td>Have coffee with a faculty member</td>
<td>Attend an internship/career fair</td>
<td>Attend an internship/career fair</td>
<td></td>
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</tbody>
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### UTPB students will graduate with these skills:

- Strong background in Chemical Knowledge
- Competency and Safety Laboratory Practices
- Personal and Social Responsibility
- Oral and Written Communication
- Independent Problem Solving
- Quantitative and Qualitative Analysis
- Team Work
- Leadership

### Career opportunities:

- Industry
- Pharmacy
- Clinical Research
- Petroleum analysis and refining
- Government
- Forensics
- Higher Education
- Entrepreneur

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### Bachelor of Chemistry/Bio-Chemistry Track

#### Semester 1
- CHEM 1311/1311W/1111 General Chemistry I Series
- UNIV 1101 Freshman Seminar
- ENGL 1301 Composition I
- MATH 2412 Pre-calculus
  - OR MATH 2413 Calculus I
- COMM 1301 Intro to the Study of Communication
- HIST 1301 American History I

**18 hours**

#### Semester 2
- CHEM 1312/1312W/1112 General Chemistry II Series
- ARTS 1301 Arts Appreciation
  - OR MUSI 1301 Jazz, Pop, and Rock
- ENGL 1302 Composition II
- HIST 1302 American History II

**14 hours**

#### Semester 3
- CHEM 3311/3113 Organic Chemistry I Series
- Phys 2325/2125 University Physics I Series
- PLSC 2305 American National Politics
- BIOL 1306/1106 General Biology I Series
- COMM 1301 Intro to the Study of Communication
  - OR PHIL 2300 Introduction to Philosophy

**18 hours**

#### Semester 4
- CHEM 3312/1112 Organic Chemistry II Series
- Phys 2326/2126 University Physics II Series
- PLSC 2306 State and Local Politics
- BIOL 1306/1107 General Biology II Series

**16 hours**

#### Semester 5
- CHEM 3324/3125 Analytical Chemistry I Series
- BIOL 3300/3101 Microbiology
- COMM 1315 Intro to Public Speaking
- MATH 2413 Calculus I
- PSYC 1301 Introduction to Psychology

**18 hours**

#### Semester 6
- CHEM 4313 Instrumental Chemical Analysis
  - OR CHEM 4389 Special Topics in Chemistry
- CHEM 4340 Medicinal Chemistry
- CHEM 4374/4175 Inorganic Chemistry Series (Even Year)
- BIOL 3324/3125 Cell Biology Series
  - OR BIOL 4303 Nutrition

**13 hours**

#### Semester 7
- CHEM 4301/4103 Physical Chemistry I Series
- CHEM 4321/4223 Biochemistry
- CHEM 4330/4131 NMR Spectroscopy
- CHEM 3695 Intro to Research

**13 hours**

#### Semester 8
- CHEM 4322 Biochemistry II
- CHEM 3695 Intro to Research
- CHEM 4389 Special Topics in Chemistry – Polymer Chemistry
- BIOL 4340/4141 Genetics

**12 hours**