<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 - Focus on English and Math General Education Courses - 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 Organic Chemistry I and Organic Chemistry II series - Enroll in Introduction to Research - Enroll in 15-18 credit hours Fall and Spring semester, and 3-6 credit hours during the Summer term.</td>
<td>- Enroll in Analytical Chemistry - Enroll Continue Introduction to Research - Complete General Education Requirements - Enroll in 12-16 credit hours Fall and Spring semester</td>
<td>- Complete Introduction to Research - Enroll in Physical Chemistry I Series - Enroll in Inorganic Chemistry - Enroll in 12-16 credit hours Fall and Spring semester</td>
</tr>
<tr>
<td>- Make appointment with Academic Advisor each semester - Attend UTPB workshops - Review your degree map and plan your college experience - Meet your Faculty Mentor</td>
<td>- Make appointment with Academic Advisor each semester - Participate in academic advising with Chemistry faculty member each semester. - Complete requirements to successfully pass Sophomore Music Barrier</td>
<td>- Make appointment with Faculty Mentor before registration - Complete General Education Core - Complete College of Education Pre-Requisite courses with GPA requirements. - Enroll in Chemistry Electives</td>
<td>- Complete Degree Plan Completion Audit - Complete research hours, volunteering in schools - Participate in recruiting activities with Chemistry Faculty</td>
</tr>
</tbody>
</table>

**YOUR CLASS SCHEDULE**

**ACADEMIC ADVISING**

**ENRICHING EXPERIENCES**

**LIFELONG SUCCESS**

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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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College of Arts & Sciences | Dean Office – ST 1226 | 432-552-2220 | www.utpb.edu/cas
# Bachelor of Science in Chemistry/Pre-Pharmacy

## Degree Map | 2019-2020

### Bachelor of Chemistry Pre-Pharmacy

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
</table>
| **Semester 1** | CHEM 1311/1311W/1111 General Chemistry I Series<br>UNIV 1101 Freshman Seminar<br>ENGL 1301 Composition I<br>MATH 2412 Pre-calculus  
  **OR** MATH 2413 Calculus I<br>COMM 1301 Intro to the Study of Communication<br>HIST 1301 American History I | 18 |
| **Semester 2** | CHEM 1312/1312W/1112 General Chemistry II Series<br>ARTS 1301<br>Arts Appreciation  
  **OR** MUSI 1301 Jazz, Pop, and Rock<br>ENGL 1302 Composition II<br>HIST 1302 American History II | 14 |
| **Semester 3** | CHEM 3311/3113 Organic Chemistry I Series<br>Phys 2325/2125 University Physics I Series<br>PLSC 2305 American National Politics<br>Biol 1306/1106 General Biology I Series<br>COMM 1301 Intro to the Study of Communication  
  **OR** PHIL 2300 Introduction to Philosophy | 18 |
| **Semester 4** | CHEM 3312/1112 Organic Chemistry II Series<br>Phys 2326/2126 University Physics II Series<br>PLSC 2306 State and Local Politics<br>Biol 1306/1107 General Biology II Series | 16 |
| **Semester 5** | CHEM 3324/3125 Analytical Chemistry I Series<br>Biol 3300/3101 Microbiology<br>COMM 1315 Intro to Public Speaking<br>MATH 2413 Calculus I<br>PSYC 1301 Introduction to Psychology | 18 |
| **Semester 6** | CHEM 4313 Instrumental Chemical Analysis  
  **OR** CHEM 4389 Special Topics in Chemistry<br>CHEM 4340 Medicinal Chemistry<br>CHEM 4374/4175 Inorganic Chemistry Series (Even Year)<br>Biol 3324/3125 Cell Biology Series  
  **OR** BIOL 4303 Nutrition | 13 |
| **Semester 7** | CHEM 4301/4103 Physical Chemistry I Series<br>CHEM 4321/4223 Biochemistry<br>CHEM 4330/4131 NMR Spectroscopy<br>CHEM 3695 Intro to Research<br>BIOL 4322 Molecular Biology | 16 |
| **Semester 8** | CHEM 4302/4101 Physical Chemistry II Series (Odd Year)  
  **OR** CHEM 4389 Special Topics in Chemistry<br>CHEM 3695 Intro to Research<br>CHEM 4389 Special Topics in Chemistry – Polymer Chemistry<br>BIOL 4340/4141 Genetics | 12 |