<table>
<thead>
<tr>
<th>SCHEDULE</th>
<th>ACADEMIC ADVISING</th>
<th>ENRICHING EXPERIENCES</th>
<th>LIFELONG SUCCESS</th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman</strong></td>
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<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>- 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><strong>Prioritize Your Wellness</strong> - Participate in campus recreation - Attend Financial Literacy seminars - Form healthy study habits <strong>Build Your Community</strong> - Use FalconLink &amp; attend Club Day - Volunteer - Attend campus events <strong>Explore Your World</strong> - Attend an athletics event, musical performance, or visit the art gallery</td>
<td><strong>Build Your Brand</strong> - Draft your resume - Register for the Job Board - Attend Undergraduate Research Day <strong>Craft Your Future</strong> - Explore career options - Complete Chemical Safety/Lab Training - Have coffee with a faculty member</td>
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<td><strong>Sophomore</strong></td>
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<tr>
<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>- 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><strong>Prioritize Your Wellness</strong> - Enjoy outdoor spaces on campus <strong>Build Your Community</strong> - Join an organization (ex: ACS) - Explore campus leadership (SGA, Orientation Leader, Resident Asst.) - Participate in STEM activities on/off campus - Become a Peer Leader or Mentor <strong>Explore Your World</strong> - Consider study abroad - Attend UTPB Chemistry workshops and visiting lectures</td>
<td><strong>Build Your Brand</strong> - Update your resume - Join LinkedIn - Consider student employment - Apply for Undergraduate Research Program <strong>Craft Your Future</strong> - Participate in mock interviews - Attend an internship/career fair</td>
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<td><strong>Junior</strong></td>
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<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>- 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><strong>Prioritize Your Wellness</strong> - Attend a health fair <strong>Build Your Community</strong> - Run for organization officer role - Apply to be a Chemistry Ambassador - Apply to Gamma Sigma Epsilon Xi Zeta Chemistry Honor Society <strong>Explore Your World</strong> - Consider study abroad - Participate in service learning</td>
<td><strong>Build Your Brand</strong> - Update your resume - Participate in Summer Research (REU, LSAMP, etc.) - Attend Seminar on Professional Oral and Poster Presentations - Present Research at a National ACS Meeting <strong>Craft Your Future</strong> - Search for internships or fellowships - Attend National and Regional Scientific Conferences</td>
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<tr>
<td><strong>Senior</strong></td>
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<tr>
<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>
<td>- Complete Degree Plan Completion Audit - Complete research hours, volunteering in schools - Participate in recruiting activities with Chemistry Faculty</td>
<td><strong>Prioritize Your Wellness</strong> - Attend financial literacy seminars <strong>Build Your Community</strong> - Attend your ring ceremony - Join Alumni Association upon graduation <strong>Explore Your World</strong> - Consider study abroad (summer prior to senior year)</td>
<td><strong>Build Your Brand</strong> - Update your resume - Develop &amp; present research <strong>Craft Your Future</strong> - Participate in an internship or fellowship - Apply to Graduate/Professional School - Attend GSE Binational Meeting Chemistry Club</td>
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</tbody>
</table>

**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
# BACHELOR OF CHEMISTRY

## 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
- MATH 2413 Calculus I
  - OR Course from minor (with lab)
- PLSC 2305 American National Politics
- 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
- SOCI 1301 Introduction to Sociology
  - OR PSYC 1301 Introduction to Psychology
- PLSC 2306 State and Local Politics
- **14 hours**

## Semester 5
- CHEM 3324/3125 Analytical Chemistry I Series
- CHEM 3695 Intro to Research
- COMM 1315 Intro to Public Speaking
- Course from minor (with lab)
- **12 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)
- 3000 or 4000 Level Elective
- Course from minor
- **16 hours**

## Semester 7
- CHEM 4301/4103 Physical Chemistry I Series
- CHEM 4321/4223 Biochemistry
- CHEM 4330/4131 NMR Spectroscopy
- Course from minor
- Course from minor
- **16 hours**

## Semester 8
- CHEM 4302/4101 Physical Chemistry II Series (Odd Year)
  - OR CHEM 4389 Special Topics in Chemistry
- CHEM 3695 Intro to Research
- CHEM 4322 Biochemistry II
- Course from minor
- **12 hours**