

	<b>YOUR CLASS SCHEDULE</b>	<b>ACADEMIC ADVISING</b>	<b>ENRICHING EXPERIENCES</b>	<b>LIFELONG SUCCESS</b>
<b>Freshman</b>	<ul style="list-style-type: none"> <li>-Enroll in General Chemistry I and General Chemistry II series</li> <li>-Focus on English and Math General Education Courses</li> <li>-Enroll in 15-18 credit hours Fall and Spring semester if possible, and 3-6 credit hours during the Summer term.</li> </ul>	<ul style="list-style-type: none"> <li>-Make appointment with Academic Advisor each semester</li> <li>-Attend UTPB workshops</li> <li>- Review your degree map and plan your college experience</li> <li>-Meet your Faculty Mentor</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>• Participate in campus recreation</li> <li>• Attend Financial Literacy seminars</li> <li>• Form healthy study habits</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>• Use FalconLink &amp; attend Club Day</li> <li>• Volunteer</li> <li>• Attend campus events</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>• Attend an athletics event, musical performance, or visit the art gallery</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Draft your resume</li> <li>• Register for the Job Board</li> <li>• Attend Undergraduate Research Day</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Explore career options</li> <li>• Complete Chemical Safety/Lab Training</li> <li>• Have coffee with a faculty member</li> </ul>
<b>Sophomore</b>	<ul style="list-style-type: none"> <li>-Enroll in Organic Chemistry I and Organic Chemistry II series</li> <li>-Enroll in Introduction to Research</li> <li>-Enroll in 15-18 credit hours Fall and Spring semester, and 3-6 credit hours during the Summer term.</li> </ul>	<ul style="list-style-type: none"> <li>- Make appointment with Academic Advisor each semester</li> <li>-Participate in academic advising with Chemistry faculty member each semester.</li> <li>-Complete requirements to successfully pass Sophomore Music Barrier</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>• Enjoy outdoor spaces on campus</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>• Join an organization (ex: ACS)</li> <li>• Explore campus leadership (SGA, Orientation Leader, Resident Asst.)</li> <li>• Participate in STEM activities on/off campus</li> <li>• Become a Peer Leader or Mentor</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>• Consider study abroad</li> <li>• Attend UTPB Chemistry workshops and visiting lectures</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Update your resume</li> <li>• Join LinkedIn</li> <li>• Consider student employment</li> <li>• Apply for Undergraduate Research Program</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Participate in mock interviews</li> <li>• Attend an internship/career fair</li> </ul>
<b>Junior</b>	<ul style="list-style-type: none"> <li>- Enroll in Analytical Chemistry</li> <li>-Enroll Continue Introduction to Research</li> <li>-Complete General Education Requirements</li> <li>-Enroll in 12-16 credit hours Fall and Spring semester</li> </ul>	<ul style="list-style-type: none"> <li>-Make appointment with Faculty Mentor before registration</li> <li>-Complete General Education Core</li> <li>-Complete College of Education Pre-requisite courses with GPA requirements.</li> <li>-Enroll in Chemistry Electives</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>• Attend a health fair</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>• Run for organization officer role</li> <li>• Apply to be a Chemistry Ambassador</li> <li>• Apply to Gamma Sigma Epsilon Xi Zeta Chemistry Honor Society</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>• Consider study abroad</li> <li>• Participate in service learning</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Update your resume</li> <li>• Participate in Summer Research (REU, LSAMP, etc.)</li> <li>• Attend Seminar on Professional Oral and Poster Presentations</li> <li>• Present Research at a National ACS Meeting</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Search for internships or fellowships</li> <li>• Attend National and Regional Scientific Conferences</li> </ul>
<b>Senior</b>	<ul style="list-style-type: none"> <li>-Complete Introduction to Research</li> <li>-Enroll in Physical Chemistry I Series</li> <li>-Enroll in Inorganic Chemistry</li> <li>-Enroll in 12-16 credit hours Fall and Spring semester</li> </ul>	<ul style="list-style-type: none"> <li>-Complete Degree Plan Completion Audit</li> <li>-Complete research hours, volunteering in schools</li> <li>-Participate in recruiting activities with Chemistry Faculty</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>• Attend financial literacy seminars</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>• Attend your ring ceremony</li> <li>• Join Alumni Association upon graduation</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>• Consider study abroad (summer prior to senior year)</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Update your resume</li> <li>• Develop &amp; present research</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Participate in an internship or fellowship</li> <li>• Apply to Graduate/Professional School</li> <li>• Attend GSE Binational Meeting Chemistry Club</li> </ul>

## 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 Science

# CHEMISTRY/Pre-Pharmacy

Degree Map | 2019-2020

## BACHELOR OF CHEMISTRY Pre-Pharmacy

### 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  
BIOL 4322 Molecular Biology

**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 4389 Special Topics in Chemistry – Polymer Chemistry  
BIOL 4340/4141 Genetics

**12 hours**