UT Permian Basin

Bachelor of Science

# CHEMISTRY/Environmental

Degree Map | 2019-2020

| | YOUR CLASS SCHEDULE | ACADEMIC ADVISING | ENRICHING EXPERIENCES | LIFELONG SUCCESS |
|---|---|---|---|---|
| Freshman | -Enroll in General Chemistry I and General Chemistry II series<br>-Focus on English and Math General Education Courses<br>-Enroll in 15-18 credit hours Fall and Spring semester if possible, and 3-6 credit hours during the Summer term. | -Make appointment with Academic Advisor each semester<br>-Attend UTPB workshops<br>- Review your degree map and plan your college experience<br>-Meet your Faculty Mentor | ***Prioritize Your Wellness***<br>• Participate in campus recreation<br>• Attend Financial Literacy seminars<br>• Form healthy study habits<br>***Build Your Community***<br>• Use FalconLink & attend Club Day<br>• Volunteer<br>• Attend campus events<br>***Explore Your World***<br>• Attend an athletics event, musical performance, or visit the art gallery | ***Build Your Brand***<br>• Draft your resume<br>• Register for the Job Board<br>• Attend Undergraduate Research Day<br>***Craft Your Future***<br>• Explore career options<br>• Complete Chemical Safety/Lab Training<br>• Have coffee with a faculty member |
| Sophomore | -Enroll in Organic Chemistry I and Organic Chemistry II series<br>-Enroll in Introduction to Research<br>-Enroll in 15-18 credit hours Fall and Spring semester, and 3-6 credit hours during the Summer term. | - Make appointment with Academic Advisor each semester<br>-Participate in academic advising with Chemistry faculty member each semester.<br>-Complete requirements to successfully pass Sophomore Music Barrier | ***Prioritize Your Wellness***<br>• Enjoy outdoor spaces on campus<br>***Build Your Community***<br>• Join an organization (ex: ACS)<br>• Explore campus leadership (SGA, Orientation Leader, Resident Asst.)<br>• Participate in STEM activities on/off campus<br>• Become a Peer Leader or Mentor<br>***Explore Your World***<br>• Consider study abroad<br>• Attend UTPB Chemistry workshops and visiting lectures | ***Build Your Brand***<br>• Update your resume<br>• Join LinkedIn<br>• Consider student employment<br>• Apply for Undergraduate Research Program<br>***Craft Your Future***<br>• Participate in mock interviews<br>• Attend an internship/career fair |
| Junior | - Enroll in Analytical Chemistry<br>-Enroll Continue Introduction to Research<br>-Complete General Education Requirements<br>-Enroll in 12-16 credit hours Fall and Spring semester | -Make appointment with Faculty Mentor before registration<br>-Complete General Education Core<br>-Complete College of Education Pre-requisite courses with GPA requirements.<br>-Enroll in Chemistry Electives | ***Prioritize Your Wellness***<br>• Attend a health fair<br>***Build Your Community***<br>• Run for organization officer role<br>• Apply to be a Chemistry Ambassador<br>• Apply to Gamma Sigma Epsilon Xi Zeta Chemistry Honor Society<br>***Explore Your World***<br>• Consider study abroad<br>• Participate in service learning | ***Build Your Brand***<br>• Update your resume<br>• Participate in Summer Research (REU, LSAMP, etc.)<br>• Attend Seminar on Professional Oral and Poster Presentations<br>• Present Research at a National ACS Meeting<br>***Craft Your Future***<br>• Search for internships or fellowships<br>• Attend National and Regional Scientific Conferences |
| Senior | -Complete Introduction to Research<br>-Enroll in Physical Chemistry I Series<br>-Enroll in Inorganic Chemistry<br>-Enroll in 12-16 credit hours Fall and Spring semester | -Complete Degree Plan Completion Audit<br>-Complete research hours, volunteering in schools<br>-Participate in recruiting activities with Chemistry Faculty | ***Prioritize Your Wellness***<br>• Attend financial literacy seminars<br>***Build Your Community***<br>• Attend your ring ceremony<br>• Join Alumni Association upon graduation<br>***Explore Your World***<br>• Consider study abroad (summer prior to senior year) | ***Build Your Brand***<br>• Update your resume<br>• Develop & present research<br>***Craft Your Future***<br>• Participate in an internship or fellowship<br>• Apply to Graduate/Professional School<br>• Attend GSE Binational Meeting Chemistry Club |

## 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 Environmental 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
MATH 2413 Calculus I
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
ENSC 3301 Environmental Science I

**12 hours**

**Semester 6**
CHEM 4313 Instrumental Chemical Analysis
OR CHEM 4389 Special Topics in Chemistry
ENSC 3324 GIS Applications
CHEM 4374/4175 Inorganic Chemistry Series (Even Year)
3000 or 4000 Level Elective
ENSC 3302 Environmental Science II

**16 hours**

**Semester 7**
CHEM 4301/4103 Physical Chemistry I Series
CHEM 4321/4223 Biochemistry
CHEM 4330/4131 NMR Spectroscopy
ENSC 3315 Water Quality
ENSC 3320 Environmental Law

**16 hours**

**Semester 8**
CHEM 4389 Special Topics in Chemistry – Environmental Chemistry
CHEM 3695 Intro to Research
ENSC 4322 Environmental Research
ENSC 4303 Adv. Environmental Science
Upper Level Elective

**13 hours**