

Bachelor of Science CHEMISTRY/Bio-Chemistry

Degree Map | 2019-2020

	YOUR CLASS	ACADEMIC	ENRICHING	LIFELONG
	SCHEDULE	ADVISING	EXPERIENCES	SUCCESS
Freshman	-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.	-Make appointment with Academic Advisor each semester -Attend UTPB workshops - Review your degree map and plan your college experience -Meet your Faculty Mentor	 Prioritize Your Wellness Participate in campus recreation Attend Financial Literacy seminars Form healthy study habits Build Your Community Use FalconLink & attend Club Day Volunteer Attend campus events Explore Your World Attend an athletics event, musical performance, or visit the art gallery 	Build Your Brand • Draft your resume • Register for the Job Board • Attend Undergraduate Research Day Craft Your Future • Explore career options • Complete Chemical Safety/Lab Training • Have coffee with a faculty member
Sophomore	-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.	 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 	 Prioritize Your Wellness Enjoy outdoor spaces on campus Build Your Community 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 Explore Your World Consider study abroad Attend UTPB Chemistry workshops and visiting lectures 	 Build Your Brand Update your resume Join LinkedIn Consider student employment Apply for Undergraduate Research Program Craft Your Future Participate in mock interviews Attend an internship/career fair
Junior	 Enroll in Analytical Chemistry Enroll Continue Introduction to Research Complete General Education Requirements Enroll in 12-16 credit hours Fall and Spring semester 	-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	 Prioritize Your Wellness Attend a health fair Build Your Community Run for organization officer role Apply to be a Chemistry Ambassador Apply to Gamma Sigma Epsilon Xi Zeta Chemistry Honor Society Explore Your World Consider study abroad Participate in service learning 	 Build Your Brand 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 Craft Your Future Search for internships or fellowships Attend National and Regional Scientific Conferences
Senior	-Complete Introduction to Research -Enroll in Physical Chemistry I Series -Enroll in Inorganic Chemistry -Enroll in 12-16 credit hours Fall and Spring semester	-Complete Degree Plan Completion Audit -Complete research hours, volunteering in schools -Participate in recruiting activities with Chemistry Faculty	 Prioritize Your Wellness Attend financial literacy seminars Build Your Community Attend your ring ceremony Join Alumni Association upon graduation Explore Your World Consider study abroad (summer prior to senior year) 	Build Your Brand • Update your resume • Develop & present research Craft Your Future • Participate in an internship or fellowship • Apply to Graduate/Professional School • 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
- •Entropropour
- •Entrepreneur

College of Arts & Sciences | Dean Office - ST 1226 | 432-552-2220 | www.utpb.edu/cas



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BACHELOR OF CHEMISTRY Biochemistry 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 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 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 8

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

12 hours