

West Texas A&M University Advising Services
Degree Checklist 2019-2020

CC This symbol indicates courses that apply towards degree programs at WT. All core classes are offered at CC. Please refer to the list regarding major specific courses. Course prefixes and numbers may vary at each institution. Please contact an adviser to ensure the course will apply towards chosen core area.

NAME: _____ **WT ID:** _____ **DATE:** _____

Chemistry Option III—Biochemistry
Chemistry and Physics
Chemistry and Physics Bldg. (301 26th St.) (806)651-2940

CORE CURRICULUM COURSES: 42 HOURS*		HRS	CC
Communication (Code 10)			
ENGL 1301 Introduction to Academic Writing and Argumentation		3	
COMM 1315, 1318, or 1321		3	
Mathematics (Code 20)			
See University Core Requirements below		(3)	
Life and Physical Sciences (Code 30)			
See University Core Requirements below		(6)	
Language, Philosophy and Culture (Code 40)			
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312**/**, 2313*, 2315*, or 2371	Choose 1	3	
Creative Arts (Code 50)			
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310	Choose 1	3	
American History (60)			
HIST 1301, 1302, 2301, 2381	Choose 2	6	
Government/Political Science (Code 70)			
POSC 2305 and 2306		6	
Social and Behavioral Sciences (80)			
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301	Choose 1	3	
Component Area Option (Code 90)			
See University Core Requirements below		(6)	
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS			
A grade of "C" or better must be earned in all courses required for major.			
UNIVERSITY CORE REQUIREMENTS: 15 HOURS *			
CORE 20			
MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3]	CC	3	
CORE 30			
CHEM 1411*[3] Chemistry I	CC	3	
CORE 30			
CHEM 1412*[3] Chemistry II	CC	3	
CORE 90			
ENGL 1302* or 2311*	CC	3	
CORE 90			
CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]	CC	3	
BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS			
CHEM 2423*, 2423L Organic Chemistry I	CC	4	
CHEM 2425*, 2425L Organic Chemistry II	CC	4	
CHEM 3201* Chemical Literature		2	
CHEM 4103* Seminar in Chemistry		1	
CHEM 3511*, 3511L Analytical Chemistry		5	
CHEM 4323*, 4223L Biochemistry I/Biochemistry I Laboratory		5	
CHEM 4324*, 4224L Biochemistry II/Biochemistry II Laboratory		5	
BIOL 1406, 1406L AND BIOL 1407*, 1407L	CC	8	
OR			
BIOL 1411, 1411L AND BIOL 1413, 1413L			
BIOL 2572*, 2572L Microbiology		5	

Bachelor of Science Degree
BS.BIOCHEM (104)

BIOL 3301 Genetics	3	
BIOL 3402*, 3402L Cell Biology	4	
ADVANCED BIOLOGY ELECTIVE - BIOL 3440 or 4375 is recommended. - Taking both BIOL 2401 and BIOL 2402 may also be used to satisfy this requirement.	3-4	
MATH 1316* Plane Trigonometry OR CC MATH 2412* Pre-Calculus (if not taken to satisfy Core 20)	0-4	
MATH 2413* Calculus I	CC	4
PHYS 1401*, 1401L General Physics I AND PHYS 1402*, 1402L General Physics II OR CC PHYS 2425*, 2425L Calculus Physics I AND PHYS 2426*, 2426L Calculus Physics II	8	
CHEM 4370* (MPS 4370) Senior Investigations OR MPS 4393* Math/Physical Science/Engineering Technology Honors	3	
ADVANCED ELECTIVES: 9-10 HOURS—SEE NOTE II		
ADVANCED ELECTIVES Selected from chemistry, mathematics, biology, computer science, physics, environmental science or geology to provide a minimum of 39 advanced (3000- or 4000-level) hours.	9-10	
ELECTIVES: 0-4 HOURS BY ADVISEMENT ♦		
ELECTIVES	0-4	
BACHELOR OF SCIENCE REQUIREMENTS		
Covered by requirements for major.		OPTION
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	120	

♦ NOTE: The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.

* Indicates prerequisites—see catalog for more information.

** Or an equivalent course (second year, second semester) in a foreign language.

NOTE I: Option III is for students planning careers using chemistry applied to medical science, including pre-medical students and other pre-professional students.

NOTE II: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU, and 30 of the final 36 hours counted toward the degree must be earned at WTAMU. A maximum of six semester hours in religion (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

Note: This is NOT a degree plan. After completing 30 hours, students are required to request an official degree plan by using the online [Degree Plan Request](#) form. Students who have questions about their degree plan should contact the office of the dean of the Paul Engler College of Agriculture and Natural Sciences, which is located in the Happy State Bank Academic & Research Building, Suite 262 (phone 806-651-3570). Students who have completed 30 hours will not be allowed to progress without requesting a degree plan.

