### West Texas A&M University Advising Services Degree Checklist 2020-2021

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME: WT ID: DATE:	
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## Chemistry Option III—Biochemistry Chemistry and Physics

Chemistry and Physics Bldg. (301 26th St.) (806)651-2940

CORE CURRICULUM COURSES: 42 HOURS+	HRS	
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)	(5)	
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	3	
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1  American History (60)	3	
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)	1	1
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	or majo	r.
REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required for UNIVERSITY CORE REQUIREMENTS: 15 HOURS •	or majo	r.
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### Bachelor of Science Degree BS.BIOCHEM (104)

BIOL 3301 Genetics  BIOL 3402*, 3402L Cell Biology		-		
	3			
ADVANCED DIOLOGY ELECTIVE	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 <b>OR</b> MATH 2412* Pre-Calculus (if not taken to satisfy Core 20)	0-4			
MATH 2413* Calculus I	4			
PHYS 1401*, 1401L General Physics I AND PHYS 1402*, 1402L General Physics II OR PHYS 2425*, 2425L Calculus Physics I AND PHYS 2426*, 2426L Calculus Physics II	8			
CHEM 4370* (MPS 4370) Senior Investigations <b>OR</b> 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 HOURS BY ADVISEMENT +				
ELECTIVES: 0-4 HOURS BY ADVISEMENT + ELECTIVES	0-4			
		PTION		

- ♦ 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.

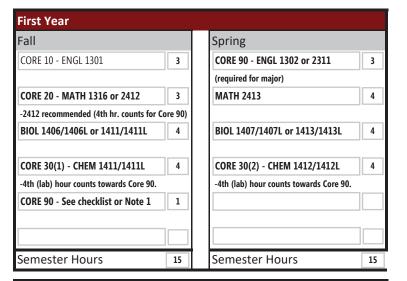
Note: This is NOT a degree plan. Upon completing 30 credit hours, students must request an official degree plan (using the online <u>Degree Plan Request</u> form) in order to progress. Students who have questions about their degree plan should contact the office of the dean of the Paul Engler College of Agriculture and Natural Sciences, which is located in the Happy State Bank Academic & Research Building, Suite 262 (phone 806-651-3570).

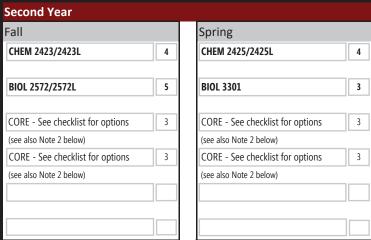
# WTAMU ADVISING SERVICES 2020-2021 Curriculum Guide

Major Code: 104

Semester Hours

Major: Chemistry - Opt. III - Biochemistry, B.S.

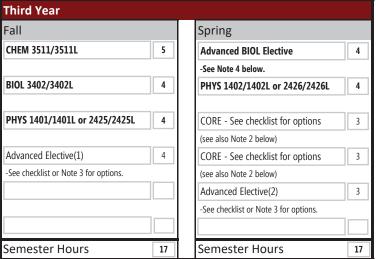


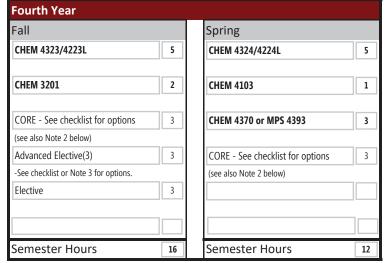


15

Semester Hours

13





#### **Degree Total Hours 120**

DISCLAIMER: This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Identified Marketable Skills:

Top 3 Local Employers or Industries/Professional Programs/Possible Career Opportunities

### Prerequisites/Important Sequences/Other degree Notes:

NOTE 1 - CORE 90: One of the six hours required for Core 90 may satisfied by IDS 1071 (if taken) or the fourth hour from MATH 2412 or 2413.

Note 2 - CORE: Chemistry majors are required to take specific courses for Core 20, Core 30, and Core 90. For all other categories, they may select from any available options (see degree checklist).

Note 3 - Advanced Electives: Select advanced (3000- or 4000-level) course from subjects: chemistry, mathematics, biology, computer science, physics, environmental science, or geology.

Note 4 - Advanced BIOL Elective: BIOL 3440 or 4375 is recommended. Taking both BIOL 2401 and 2402 may also be used to satisfy this requirement.