West Texas A&M University Advising Services Degree Checklist 2021-2022

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

NAME:	WT ID:	DATE:	
-------	--------	-------	--

Chemistry Option III—Biochemistry Chemistry and Physics

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

Chemistry and Physics Bldg. (301 26 th St.) (8		
CORE CURRICULUM COURSES: 42 HOURS+	HRS	FP
Communication (Code 10)	1	
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
Mathematics (Code 20)	(0)	
See University Core Requirements below Life and Physical Sciences (Code 30)	(3)	
See University Core Requirements below	(6)	
Language, Philosophy and Culture (Code 40)	(0)	
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	
Creative Arts (Code 50) ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose	1 .5	
American History (60)		
HIST 1301, 1302, 2301, 2381, 2382 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)		
	(0)	
See University Core Requirements below CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR	(6)	
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required		r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS •		r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3]	I for majo	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I	for majo	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3]	3	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II FIGURE 90 ENGL 1302* or 2311*	I for majo	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 30 CHEM 1412*[3] Chemistry II CORE 90	I for majo	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND	3 3 3 3 3	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]	3 3 3 3 3 3	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II FINAL CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS	3 3 3 3 3 3	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS CHEM 2423*, 2423L Organic Chemistry I	3 3 3 3 3 4 4	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS CHEM 2423*, 2423L Organic Chemistry II CHEM 2425*, 2425L Organic Chemistry II CHEM 3201* Chemical Literature CHEM 4103* Seminar in Chemistry	3 3 3 3 4 4 4 2 1 1	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS CHEM 2423*, 2423L Organic Chemistry I CHEM 2425*, 2425L Organic Chemistry II CHEM 3201* Chemical Literature CHEM 4103* Seminar in Chemistry CHEM 3511*, 3511L Analytical Chemistry	3 3 3 3 4 4 4 2	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] FINAL CORE 30 CHEM 1411*[3] Chemistry II CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS CHEM 2423*, 2423L Organic Chemistry II CHEM 2425*, 2425L Organic Chemistry II CHEM 3201* Chemical Literature CHEM 4103* Seminar in Chemistry CHEM 4323*, 4223L Biochemistry I/Biochemistry I Laboratory	3 3 3 3 4 4 4 2 1 1	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS CHEM 2423*, 2423L Organic Chemistry I CHEM 2425*, 2425L Organic Chemistry II CHEM 3201* Chemical Literature CHEM 4103* Seminar in Chemistry CHEM 3511*, 3511L Analytical Chemistry CHEM 4323*, 4223L Biochemistry I/Biochemistry I	3 3 3 3 4 4 4 2 1 5 5	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS CHEM 2423*, 2423L Organic Chemistry I CHEM 3201* Chemical Literature CHEM 3201* Chemical Literature CHEM 4103* Seminar in Chemistry CHEM 4323*, 4223L Biochemistry I/Biochemistry I Laboratory CHEM 4324*, 4224L Biochemistry II/Biochemistry II Laboratory BIOL 1406, 1406L AND BIOL 1407*, 1407L OR	3 3 3 3 3 4 4 4 2 1 5 5 5	r.
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 79-84 HOURS A grade of "C" or better must be earned in all courses required UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CORE 30 CHEM 1411*[3] Chemistry I CORE 30 CHEM 1412*[3] Chemistry II CORE 90 ENGL 1302* or 2311* CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] BIOCHEMISTRY REQUIREMENTS: 64-69 HOURS CHEM 2423*, 2423L Organic Chemistry II CHEM 3201* Chemical Literature CHEM 4103* Seminar in Chemistry CHEM 4323*, 4223L Biochemistry I/Biochemistry I Laboratory CHEM 4324*, 4224L Biochemistry II/Biochemistry II Laboratory BIOL 1406, 1406L AND BIOL 1407*, 1407L	3 3 3 3 3 4 4 4 2 1 5 5 5 5	r.

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.					
MATH 1316* Plane Trigonometry OR MATH 2412* Pre-Calculus (if not taken to satisfy Core 20)	0-4				
MATH 2413* Calculus I FPC	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 OR MPS 4393* Math/Physical Science/Engineering Technology Honors					
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.					
ELECTIVES: 0-4 HOURS BY ADVISEMENT +					
ELECTIVES	0-4				
BACHELOR OF SCIENCE REQUIREMENTS Covered by requirements for major.	0	PTION			
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE					

- ♦ 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 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid 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.

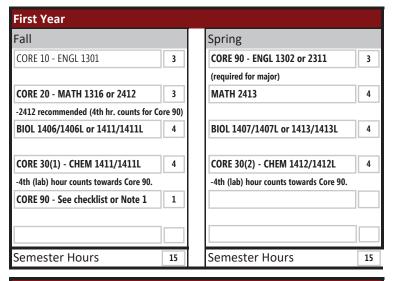
NOTE: This is NOT a degree plan. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.

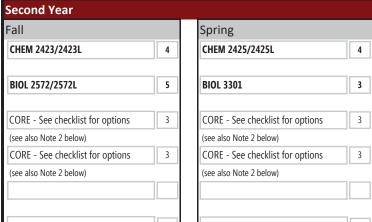
WTAMU ADVISING SERVICES 2021-2022 Curriculum Guide

Major Code: 104

Semester Hours

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

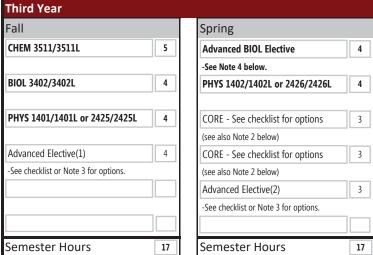


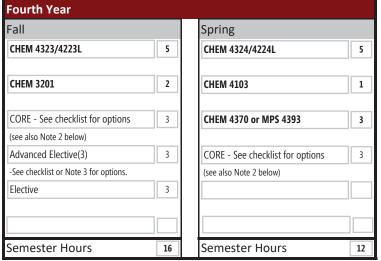


15

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.