West Texas A&M University Advising Services Degree Checklist 2014-2015

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

NAME:	WT ID:	DATE:
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Chemistry Option III—Biochemistry Department of Mathematics, Chemistry and Physics Classroom Center, Room 420 (806)651-2540

CORE CURRICULUM COURSES: 42 HOURS+	HRS		
Communication (Code 10)			
ENGL 1301 (ENG 101) Introduction to Academic Writing and Argumentation	3		
COMM 1315 (SCOM 101, 1315), 1318 (SCOM 103, 1318), or 1321 (SCOM 201, 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 (201), ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311 (110), 2323, 2372 (210); PHIL 1301 (101), 2374 (204); SPAN 2311* (206), 2312*/** (207), 2313* or SPAN 2315*/** Choose 1	3		
Creative Arts (Code 50)			
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303; MUSI 1306 (MUS 101) or 1208 and 1209* (extra MUSI hour moves to Code 90); or THRE 1310 (105) Choose 1	3		
American History (60)			
HIST 1301 (201), 1302 (202), 2301, 2381 Choose 2	6		
Government/Political Science (Code 70)			
POSC 2305 (101) and 2306 (102)	6		
Social and Behavioral Sciences (80)			
AGBE 2317* (213); COMM 2377 (SCOM 255, 2377); CRIJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202); PSYC 2301 (PSY 201); SOCI 1301 (201) Choose 1	3		
Component Area Option (Code 90)	(0)	_	
See University Core Requirements below	(6)		
CHEMISTRY—OPTION III (BIOCHEMISTRY) MAJOR REQUIREMENTS: 78-83 HOURS A grade of "C" or better must be earned in all courses required for	or majo	r.	
UNIVERSITY CORE REQUIREMENTS: 15 HOURS •			
CORE 20 MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3] (1348), or 2413*[3] (240)	3		
CHEM 1411*[3] (101) Chemistry I	3		
CHEM 1412*[3] (102) Chemistry II	3		
CORE 90 ENGL 1302* (ENG 102) or 2311* (270)	3		
CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]	3		
BIOCHEMISTRY REQUIREMENTS: 63-68 HOURS			
CHEM 2523*, 2523L (201) Organic Chemistry I	5		
CHEM 2525*, 2525L (202) Organic Chemistry II	5		
CHEM 3511*, 3511L (311) Analytical Chemistry	5		
CHEM 4323*, 4223L (421) Biochemistry I/Biochemistry I Laboratory	5		
CHEM 4324*, 4224L (422) Biochemistry II/Biochemistry II Laboratory	5		
BIOL 1406, 1406L (101) AND BIOL 1407*, 1407L (102) OR BIOL 1411, 1411L (122) AND BIOL 1413, 1413L (121)	8		
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Bachelor of Science Degree BS.BIOCHEM (104)

BIOL 2572*, 2572L (212) Microbiology	5				
BIOL 3301 (301) Genetics	3				
BIOL 3402*, 3402L (302) Cell Biology	4				
BIOL 3440, 3440L (340) Anatomy and Physiology of Humans OR BIOL 4375 (475) Immunology and Serology	3-4				
MATH 1316* (111) Plane Trigonometry OR MATH 2412* (1348) Pre-Calculus (if not taken to satisfy Core 20)	0-4				
MATH 2413* (240) Calculus I	4				
PHYS 1401*, 1401L (101) General Physics I AND PHYS 1402*, 1402L (102) General Physics II OR PHYS 2425*, 2425L (210) Calculus Physics I AND PHYS 2426*, 2426L (211) Calculus Physics II	8				
CHEM 4370* (MPS 4370) Senior Investigations OR MPS 4393* (499) Math/Physical Science/Engineering Technology Honors	3				
ADVANCED ELECTIVES: 10-11 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.	10- 11				
ELECTIVES: 0-4 HOURS BY ADVISEMENT +					
ELECTIVES	0-4				
BACHELOR OF SCIENCE REQUIREMENTS Covered by requirements for major.					
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	120				
NOTE: The core curriculum must total exactly 42 hours; excess hours must be					

♦ 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.

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 encouraged to request an official degree plan in the office of the dean of the College of Agriculture, Science and Engineering, located in the Agriculture and Natural Sciences Building, Room 106 (or call 651-2585). Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.

^{**} Or an equivalent course (second year, second semester) in French or German.

Advising Services

Chemistry Option III-Biochemistry

Advising Services Department of Mathematics, Chemistry and Physics Bachelor of Science Degree
BS.BIOCHEM

2014 - 2015 Curriculum Guide

cc 420 651-2540 Degree Plan Total Hours: 120 Major Code: 104

First Y	ear Fall		Spring		
Н	CORE 10-ENGL 1301	3	Н	CORE 90-ENGL 1302 or 2311	3
o u r	CORE 20-MATH 1316 or 2412*	3	o u r	MATH 2413	4
s	BIOL 1406/1406L or 1411/1411L	4	s	BIOL 1407/1407L or 1413/1413L	4
15	CHEM 1411/1411L	4	15	CHEM 1412/1412L	4
	CORE 90-IDS 1071**	1			

Secon	Second Year						
	Fall			Spring			
Н	CHEM 2523/2523L	5	н	CHEM 2525/2525L	5		
0			0				
u	CORE 90-COMM	3	u	BIOL 3301	3		
r	1315, 1318 or 1321		r				
S	BIOL 2572/2572L	5	s	CORE 60-HIST	3		
				1301, 1302, 2301 or 2381			
16	CORE 60-HIST	3	14	CORE 40	3		
10	1301, 1302, 2301 or 2381		17	See Checklist for Options			

Third \	Third Year							
	Fall		Spring					
Н	CHEM 3511/3511L	5	Н	ADV ELECTIVE	3			
0			0					
u	BIOL 3402/3402L	4	u	BIOL	4			
l r			r	3440/3340L or 4375				
s	PHYS	4	S	PHYS	4			
	1401/1401L or 2425/2425L			1402/1402L or 2426/2426L				
17	ADV ELECTIVE	4	17	CORE 50	3			
17	See Checklist for Options		17	See Checklist for Options				
				CORE 80	3			
				See Checklist for Options				

Fourth Year						
	Fall		Spring			
	CHEM 4323/4223L	5	l	CHEM 4324/4224L	5	
Н 0			H o			
u	ADV ELECTIVE	4	u	CORE 70-HIST	3	
r			r	2305 or 2306		
S	CORE 70-POSC	3	s	CHEM OR MPS	3	
	2305 or 2306			4370 or 4393		
15	ELECTIVE	3	11			
13						

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 45 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Notes: This option is for students planning careers using chemsitry applied to medical science, including pre-medical students and other pre-professional students.

ADVANCED ELECTIVES must be slected from: chemistry, mathematics, biology, computer science, physics, environmental science or geology.

BIOL 3440/4375 is currently offered during the summer semester only. BIOL 2401 plus 2402 may substitute for this requirement.

^{*} MATH 2412 is recommeneded over MATH 1316 for this degree plan.

^{**} MATH 2412 (1) or MATH 2413 (1) can substitute for IDS 1071 (1) if these are used to satisfy CORE 20 requirements.