#### **West Texas A&M University Advising Services Degree Checklist** 2017-2018

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

IAME:	WT ID:	DATE:
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# **Chemistry Option I—Professional Chemistry 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)		1			
See University Core Requirements below	(6)				
Language, Philosophy and Culture (Code 40)  ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, 2315*, or 2371  Choose 1	3				
Creative Arts (Code 50)		T			
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI	3				
1307, MUSI 1310; or THRE 1310 Choose 1  American History (Code 60)					
		П			
HIST 1301, 1302, 2301, 2381 Choose 2	6				
Government/Political Science (Code 70)		П			
POSC 2305 and 2306	6				
Social and Behavioral Sciences (80)	ı	1			
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1	3				
Component Area Option (Code 90)	(0)	ľ			
See University Core Requirements below	(6)	<u> </u>			
CHEMISTRY—OPTION I (PROFESSIONAL CHEMISTRY) IN REQUIREMENTS: 80-84 HOURS A grade of "C" or better must be earned in all courses required for					
UNIVERSITY CORE REQUIREMENTS: 15 HOURS •					
CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3]	3				
CHEM 1411*[3] Chemistry I	3				
CHEM 1412*[3] Chemistry II	3				
CORE 90 ENGL 1302* or 2311*	3				
CORE 90 CHEM 1411L[1], 1412L[1] AND	3				
IDS 1071[1], MATH 2412[1], or 2413[1]					
PROF. CHEMISTRY REQUIREMENTS (OPTION I): 65-69 H	OURS	3			
CHEM 2423*, 2423L Organic Chemistry I	4				
CHEM 2425*, 2425L Organic Chemistry II	4				
CHEM 3511*, 3511L Analytical Chemistry	5				
CHEM 3421*, 3421L Physical Chemistry I	4				
CHEM 3422*, 3422L Physical Chemistry II	4				
CHEM 4411*, 4411L Instrumental Analysis	4				
CHEM 4323* Biochemistry I CHEM 4223L* Biochemistry I Laboratory	5				

### **Bachelor of Arts Degree** BA.CHEM.PROF (104)

CHEM 4431*, 4431L Inorganic Chemistry	4				
CHEM 4397* Undergraduate Research	3				
CHEM 3201* Chemical Literature	2				
CHEM 4103* Seminar in Chemistry	1				
ADVANCED CHEMISTRY ELECTIVE	3				
MATH 2413* Calculus I	4				
MATH 1316* Plane Trigonometry <b>OR</b> MATH 2412* Pre-Calculus (if not taken to satisfy Core 20)	0-4				
MATH 2414* Calculus II	4				
MATH 3340* Calculus III	3				
PHYS 2425*, 2425L Calculus Physics I	4				
PHYS 2426*, 2426L Calculus Physics II	4				
CHEM 4370* (MPS 4370) Senior Investigations <b>OR</b> MPS 4393* Math/Physical Science/Engineering Technology Honors	3				
BACHELOR OF ARTS REQUIREMENTS: 12 HOURS	OP	TIOI	N		
Six hours of foreign language.	(6-8)				
Six hours chosen from art, English, history, modern languages, music, philosophy and theatre.	6				
ELECTIVES: 0-1 HOUR ◆					
ELECTIVE	0-1				
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	120				
A NOTE: The care curriculum must total exceptly 42 hours, avecas he					

◆ 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 120hour 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.

NOTE I: This option follows course recommendations of the American Chemical Society and prepares students for positions in industry, government and education. It is recommended for students planning to do graduate study in chemistry or seeking employment as chemists in industry.

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 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 College of Agriculture and Natural Sciences, which is located in the Agriculture and Natural Sciences Building, Room 106 (phone 806-651-3570). Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.

<sup>\*</sup> Indicates prerequisites—see catalog for more information.

<sup>\*\*</sup> Or an equivalent course (second year, second semester) in a foreign language.



## **Chemistry - Option I-Professional Chemistry**

Advising Services Bachelor of Arts Degree BA.CHEM.PROF

2017 - 2018 Curriculum Guide

301 26th 651-2940 Degree Plan Total Hours: 121 Major Code: 104

First Y	First Year							
	Fall			Spring				
١	CORE 10-ENGL 1301	3	١	CORE 90-ENGL	3			
H o			H o	1302 or 2311				
u	MATH 1316 OR 2412*	3	u	MATH 2413	4			
r			r					
s	CHEM 1411/1411L	4	S	CHEM 1412/1412L	4			
14	CORE 60-HIST	3	17	CORE 10-COMM	3			
14	1301, 1302, 2301 or 2381		1,	1315, 1318, or 1321				
	CORE 90-IDS 1071**	1		CORE 60-HIST	3			
				1301, 1302, 2301 or 2381				

Second Year							
	Fall		Spring				
	MATH 2414	4	l l	CHEM 2425/2425L	4		
Н			Н				
o u	CHEM 2423/2423L	4	o u	MATH 3340	3		
u r			r				
S	CORE 50	3	S	CORE 70-POSC	3		
	See Checklist for Options			2305 or 2306			
14	CORE 70-POSC	3	13	CORE 40	3		
14	2305 or 2306		13	See Checklist for Options			

Third \	Third Year						
	Fall			Spring			
Н	CHEM 3511/3511L	5	н	CHEM 3422/3422L	4		
0			0				
u	CHEM 3421/3421L	4	u	ADV CHEM ELECTIVE	3		
r			r				
S	PHYS 2425/2425L	4	s	PHYS 2426/2426L	4		
16	BA REQUIREMENT	3	14	BA REQUIREMENT	3		
10	See Checklist for Options		17	See Checklist for Options			

Fourth Year						
Fall			Spring			
	CHEM 4323/4223L	5	l l	CORE 80	3	
H o			H o	See Checklist for Options		
u	CHEM 4431/4431L	4	u	CHEM 4411/4411L	4	
r			r			
s	CHEM 4397	3	s	BA REQUIREMENT	4	
				Foreign Language		
17	BA REQUIREMENT	4	16	CHEM 4370/MPS4393	3	
17	Foreign Language		10			
	CHEM 4103	1		CHEM 3201	2	

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 follows course recommendation of the American Chemical Society and prepares students for positions in industry, government and education. It is recommended for students planning to do graduate study in chemistry or seeking employment as chemists in industry.

- \* MATH 2412 is recommended 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.