

**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: \_\_\_\_\_

**Chemistry Option I—Professional Chemistry**  
**Department of Mathematics, Chemistry and Physics**  
**Classroom Center, Room 420 (806)651-2540**

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS
<b>Communication (Code 10)</b>		
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	
<b>Mathematics (Code 20)</b>		
See University Core Requirements below	(3)	
<b>Life and Physical Sciences (Code 30)</b>		
See University Core Requirements below	(6)	
<b>Language, Philosophy and Culture (Code 40)</b>		
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**	3	Choose 1
<b>Creative Arts (Code 50)</b>		
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	
<b>American History (Code 60)</b>		
HIST 1301 (201), 1302 (202), 2301, 2381 Choose 2	6	
<b>Government/Political Science (Code 70)</b>		
POSC 2305 (101) and 2306 (102)	6	
<b>Social and Behavioral Sciences (80)</b>		
AGBE 2317* (213); COMM 2377 (SCOM 255, 2377); CRJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202); PSYC 2301 (PSY 201); SOCI 1301 (201) Choose 1	3	
<b>Component Area Option (Code 90)</b>		
See University Core Requirements below	(6)	
<b>CHEMISTRY—OPTION I (PROFESSIONAL CHEMISTRY) MAJOR REQUIREMENTS: 80-84 HOURS</b>		
A grade of "C" or better must be earned in all courses required for major.		
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦</b>		
<b>CORE 20</b> MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3] (1348), or 2413*[3] (240)	3	
<b>CORE 30</b> CHEM 1411*[3] (101) Chemistry I	3	
<b>CORE 30</b> CHEM 1412*[3] (102) Chemistry II	3	
<b>CORE 90</b> ENGL 1302* (ENG 102) or 2311* (270)	3	
<b>CORE 90</b> CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]	3	
<b>PROF. CHEMISTRY REQUIREMENTS (OPTION 1): 65-69 HOURS</b>		
CHEM 2523*, 2523L (201) Organic Chemistry I	5	
CHEM 2525*, 2525L (202) Organic Chemistry II	5	
CHEM 3511*, 3511L (311) Analytical Chemistry	5	
CHEM 3521*, 3521L (321) Physical Chemistry I	5	
CHEM 3522*, 3522L (322) Physical Chemistry II	5	

**Bachelor of Science Degree**  
**BS.CHEM.PROF (104)**

CHEM 4411*, 4411L (411) Instrumental Analysis	4	
CHEM 4323* (421) Biochemistry I CHEM 4223L* (421L) Biochemistry I Laboratory	5	
CHEM 4431*, 4431L (431) Inorganic Chemistry	4	
CHEM 4397* (498) Undergraduate Research	3	
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	
MATH 2414* (241) Calculus II	4	
MATH 3340* (340) Calculus III	3	
PHYS 2425*, 2425L (210) Calculus Physics I	4	
PHYS 2426*, 2426L (211) Calculus Physics II	4	
PHYS 3095 (341) Laboratory Problems	2	
CHEM 4370* (MPS 4370) Senior Investigations OR MPS 4393* (499) Math/Physical Science/Engineering Technology Honors	3	
<b>BACHELOR OF SCIENCE REQUIREMENTS</b>		<b>OPTION</b>
Covered by requirements for major.		
<b>ELECTIVES: 9-13 HOURS BY ADVISEMENT ♦</b>		
ELECTIVES	9-13	
<b>MINIMUM HOURS REQUIRED TO COMPLETE DEGREE</b>		<b>120</b>

♦ 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: 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 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.**



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

Second Year					
Fall			Spring		
H o u r s  15	MATH 2414	4	H o u r s  14	CHEM 2525/2525L	5
	CHEM 2523/2523L	5		MATH 3340	3
	CORE 50 See Checklist for Options	3		CORE 70-POSC 2305 or 2306	3
	CORE 70-POSC 2305 or 2306	3		CORE 40 See Checklist for Options	3

Third Year					
Fall			Spring		
H o u r s  17	CHEM 3511/3511L	5	H o u r s  14	CHEM 3522/3522L	5
	CHEM 3521/3521L	5		PHYS 3095	2
	PHYS 2425/2425L	4		PHYS 2426/2426L	4
	ADVISING ELECTIVE See Checklist for Options	3		CORE 80 See Checklist for Options	3

Fourth Year					
Fall			Spring		
H o u r s  15	CHEM 4323/4223L	5	H o u r s  14	CHEM 4411/4411L	4
	CHEM 4431/4431L	4		ADVISING ELECTIVE See Checklist for Options	3
	CHEM 4397	3		CHEM 4370/MPS 4393	3
	ADVISING ELECTIVE See Checklist for Options	3		ADVISING ELECTIVE See Checklist for Options	4

**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 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.