

**West Texas A&M University**  
**Advising Services**  
**Degree Checklist**  
**2022-2023**

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

NAME: \_\_\_\_\_ WT ID: \_\_\_\_\_ DATE: \_\_\_\_\_

**Chemistry Option I—Professional Chemistry**  
**Chemistry and Physics**  
**Chemistry and Physics Bldg. (301 26<sup>th</sup> St.) (806)651-2940**

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS	AC
<b>Communication (Core 10)</b>			
ENGL 1301 Intro. to Academic Writing & Argumentation OR ENGL 1311 Writing About Ideas		3	
COMM 1315, 1318, or 1321		3	
<b>Mathematics (Core 20)</b>			
See University Core Requirements below		(3)	
<b>Life and Physical Sciences (Core 30)</b>			
See University Core Requirements below		(6)	
<b>Language, Philosophy and Culture (Core 40)</b>			
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312**/2313*, 2315*, or 2371 Choose 1		3	
<b>Creative Arts (Core 50)</b>			
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1		3	
<b>American History (Core 60)</b>			
HIST 1301 or 2381, 1302 or 2382, 2301 Choose 2		6	
<b>Government/Political Science (Core 70)</b>			
POSC 2305 and 2306		6	
<b>Social and Behavioral Sciences (Core 80)</b>			
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1		3	
<b>Component Area Option (Core 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.			

UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦		HRS	AC
<b>CORE 20</b> MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3]		3	
<b>CORE 30</b> CHEM 1411*[3] Chemistry I		3	
<b>CORE 30</b> CHEM 1412*[3] Chemistry II		3	
<b>CORE 90</b> ENGL 1302* or 2311*		3	
<b>CORE 90</b> CHEM 1411L[1], 1412L[1] <b>AND</b> IDS 1071[1], MATH 2412[1], or 2413[1]		3	
<b>PROF. CHEMISTRY REQUIREMENTS (OPTION I): 65-69 HOURS</b>			
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	AC	4
MATH 1316* Plane Trigonometry OR MATH 2412* Pre-Calculus (if not taken to satisfy Core 20)	AC	0-4
MATH 2414* Calculus II	AC	4
MATH 3340* Calculus III	AC	3
PHYS 2425*, 2425L Calculus Physics I	AC	4
PHYS 2426*, 2426L Calculus Physics II	AC	4
CHEM 4370* (MPS 4370) Senior Investigations (must seek faculty consent to enroll) OR MPS 4393* Math/Physical Science/Engineering Technology Honors	3	
<b>BACHELOR OF ARTS REQUIREMENTS: 12 HOURS AC OPTION</b>		
Six hours of foreign language.	(6-8)	
Six hours chosen from art, English, history, modern languages, music, philosophy and theatre.	6	
<b>ELECTIVES: 0-1 HOUR ♦</b>		
ELECTIVE	0-1	
<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: 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**  
**2022-2023 Curriculum Guide**

**Major:** Chemistry - Opt. I - Professional Chemistry, B.A.

**Major Code:** 104

First Year	
Fall	Spring
Semester Hours	Semester Hours

Second Year	
Fall	Spring
Semester Hours	Semester Hours

Third Year	
Fall	Spring
Semester Hours	Semester Hours

Fourth Year	
Fall	Spring
Semester Hours	Semester Hours

**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.

<p><b>Identified Marketable Skills:</b></p>
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<p><b>Top 3 Local Employers or Industries/Professional Programs/Possible Career Opportunities</b></p>
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<p><b>Prerequisites/Important Sequences/Other degree Notes:</b></p>
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