

West Texas A&M University
Advising Services
Degree Checklist
2020-2021

(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 26th St.) (806)651-2940

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS
Communication (Core 10)		
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
Mathematics (Core 20)		
See University Core Requirements below	(3)	
Life and Physical Sciences (Core 30)		
See University Core Requirements below	(6)	
Language, Philosophy and Culture (Core 40)		
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	
Creative Arts (Core 50)		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1	3	
American History (Core 60)		
HIST 1301, 1302, 2301, 2381 Choose 2	6	
Government/Political Science (Core 70)		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Core 80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1	3	
Component Area Option (Core 90)		
See University Core Requirements below	(6)	
CHEMISTRY—OPTION I (PROFESSIONAL CHEMISTRY) MAJOR REQUIREMENTS: 80-84 HOURS		
A grade of "C" or better must be earned in all courses required for major.		

UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦		HRS
CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3]	3	
CORE 30 CHEM 1411*[3] Chemistry I	3	
CORE 30 CHEM 1412*[3] Chemistry II	3	
CORE 90 ENGL 1302* or 2311*	3	
CORE 90 CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]	3	
PROF. CHEMISTRY REQUIREMENTS (OPTION I): 65-69 HOURS		
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
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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 OR 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 OR MPS 4393* Math/Physical Science/Engineering Technology Honors	3	
BACHELOR OF ARTS REQUIREMENTS: 12 HOURS		OPTION
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	

♦ 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 (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

Note: This is NOT a degree plan. Upon completing 30 credit hours, students must request an official degree plan (using the online [Degree Plan Request form](#)) in order to progress. Students who have questions about their degree plan should contact the office of the dean of the Paul Engler College of Agriculture and Natural Sciences, which is located in the Happy State Bank Academic & Research Building, Suite 262 (phone 806-651-3570).

WTAMU ADVISING SERVICES 2020-2021 Curriculum Guide

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

Major Code: 104

First Year	
Fall	Spring
CORE 10 - ENGL 1301 3	CORE 90 - ENGL 1302 or 2311 3
CORE 20 - MATH 1316 or 2412 3	CORE 20 - MATH 2413 4
CORE 30(1) - CHEM 1411 4	CORE 30(1) - CHEM 1412 4
-4th (lab) hour counts towards Core 90.	-4th (lab) hour counts towards Core 90.
CORE - See checklist for options 3 (see also Note 1 below)	CORE - See checklist for options 3 (see also Note 1 below)
CORE 90 - See checklist or Note 2 1	CORE - See checklist for options 3 (see also Note 1 below)
Semester Hours 14	Semester Hours 17

Second Year	
Fall	Spring
MATH 2414 4	CHEM 2425/2425L 4
CHEM 2423/2423L 4	MATH 3340 3
CORE - See checklist for options 3 (see also Note 1 below)	CORE - See checklist for options 3 (see also Note 1 below)
CORE - See checklist for options 3 (see also Note 1 below)	CORE - See checklist for options 3 (see also Note 1 below)
Semester Hours 14	Semester Hours 13

Third Year	
Fall	Spring
CHEM 3511/3511L 5	CHEM 3422/3422L 4
CHEM 3421/3421L 4	Advanced CHEM elective 3
PHYS 2425/2425L 4	PHYS 2426/2426L 4
B.A. Requirement 3 -See checklist for options.	B.A. Requirement 3 -See checklist for options
Semester Hours 16	Semester Hours 14

Fourth Year	
Fall	Spring
CHEM 4323/4223L 5	CHEM 4411/4411L 4
CHEM 4431/4431L 4	CHEM 4370 or MPS 4393 4
CHEM 4397 3	B.A. Requirement 3 -Foreign language (may require 4th hour for lab).
CHEM 4103 1	CORE - See checklist for options 3 (see also Note 1 below)
B.A. Requirement 3 -Foreign language (may require 4th hour for lab).	Semester Hours 14
Semester Hours 14	Semester Hours 14

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: 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). Apart from the major-specific core requirements, there is no set order in which core courses must be taken.

Note 2 - CORE 90: One of the six hours required for Core 90 may be satisfied by IDS 1071 (if taken) or the fourth hour from MATH 2412 or 2413.