

West Texas A&M University
Advising Services
Degree Checklist
2023-2024

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

NAME: _____ **WT ID:** _____ **DATE:** _____

**Chemistry Option II—General 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 Intro. to Academic Writing & Argumentation OR ENGL 1311 Writing About Ideas	3	
COMM 1315, 1318, or 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, 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 (Code 50)		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1	3	
American History (Code 60)		
HIST 1301, 1302, 2301, 2381, or 2382 Choose 2	6	
Government/Political Science (Code 70)		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Code 80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; GEOG 1302; PSYC 2301; SOCI 1301 Choose 1	3	
Component Area Option (Code 90)		
See University Core Requirements below	(6)	
CHEMISTRY—OPTION II (GENERAL CHEMISTRY) MAJOR REQUIREMENTS: 63-69 HOURS A grade of "C" or better must be earned in all courses required for major.		
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦		
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	
GENERAL CHEMISTRY (OPTION II): 48-54 HOURS		
CHEM 2423*, 2423L Organic Chemistry I	4	
CHEM 2425*, 2425L Organic Chemistry II	4	
CHEM 3201* Chemical Literature	2	
CHEM 4103* Seminar in Chemistry	1	
CHEM 3511*, 3511L Analytical Chemistry	5	
Take three courses from: CHEM 3421*, 3421L Physical Chemistry I CHEM 3422*, 3422L Physical Chemistry II CHEM 4411*, 4411L Instrumental Analysis CHEM 4323* and 4223L Biochemistry I/ Biochem. I Lab. CHEM 4324* and 4224L Biochemistry II/ Biochem. II Lab. CHEM 4431*, 4431L Inorganic Chemistry	12-14	

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

MATH 1316* (111) Plane Trigonometry OR MATH 2412* (1348) Pre-Calculus (if not taken to satisfy Core 20)	0-4	
MATH 2413* Calculus I	4	
MATH 2414* Calculus II	4	
PHYS 1401*, 1401L General Physics I AND PHYS 1402*, 1402L General Physics II OR PHYS 2425*, 2425L Calculus Physics I AND PHYS 2426*, 2426L Calculus Physics II	8	
CHEM 4370* (MPS 4370) Senior Investigations (must seek faculty consent to be enrolled) OR MPS 4393* Math/Physical Science/Engineering Technology Honors	3	
ADVANCED ELECTIVES: 12-14 HOURS—SEE NOTE II		
ADVANCED ELECTIVES Additional advanced (3000- or 4000-level) hours to provide a minimum of 36 hours selected from chemistry, mathematics, biology, computer science, physics, environmental science or geology.	12-14	
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	
ELECTIVE		
ELECTIVE	0-4	
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	120	

* Indicates prerequisites—see catalog for more information.

** Or an equivalent course (second year, second semester) in a foreign language.

NOTE I: This option provides a background for students whose career goals are to enter education or chemistry-related fields.

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 – 2023-2024 Curriculum Guide

Major: Chemistry Opt. II – General Chemistry, B.A.

Major Code: 104

Year 1: Fall		Year 1: Spring	
CORE 10 (Communication) – ENGL 1301 or 1311	3	CORE 30 (Life & Phys. Sci.) – CHEM 1412 Chemistry II	3
CORE 20 (Mathematics) – MATH 1316 or 2412	3-4	CHEM 1412L	1
CORE 30 (Life & Phys. Sci.) – CHEM 1411 Chemistry I	3	CORE 90 (Component Area Option) – ENGL 1302, 1312 or 2311	3
CORE 90 (Component Area Option) – CHEM 1411L	1	MATH 2413 Calculus I	4
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
Total:	16-17	Total:	17
Year 2: Fall		Year 2: Spring	
MATH 2414 Calculus II	4	CHEM 2425/2425L Organic Chemistry II	4
CHEM 2423/2423L Organic Chemistry I	4	B.A. Requirement – See checklist for options	3
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
Total:	14	Total:	13
Year 3: Fall		Year 3: Spring	
CHEM 3511/3511L Analytical Chemistry	5	PHYS 1402/1402L General Physics II or PHYS 2426/2426L Calculus Physics II	4
PHYS 1401/1401L General Physics I or 2425/2425L Calculus Physics I	4	Chemistry Elective(2) – See checklist for options	4
Chemistry Elective(1) – See checklist for options	3	B.A. Requirement – See checklist for options	3
CORE – See checklist for options ¹	3	Advanced Elective	4
Total:	15	Total:	15
Year 4: Fall		Year 4: Spring	
Advanced Elective	4	CHEM 4370 Senior Investigations (must seek faculty consent) or MPS 4393 Math/Physical Science/ET Honors	3
Chemistry Elective(3) – See checklist for options	4	CHEM 3201 Chemical Literature	2
B.A. Requirement – See checklist for options	3	B.A. Requirement – See checklist for options	3
Advanced Elective	4	Advanced Elective	3
		Advanced Elective	3
		CHEM 4103 Seminar in Chemistry	1
Total:	15	Total:	15

¹ **CORE:** General 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.

Identified Marketable Skills	Top Three Local Employers or Industries/Professional Programs/Possible Career Opportunities
Procedure development Chemical analysis Data Analysis	Bell Helicopter Pantex Servitech

Additional notes:

- 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.
- 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.

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.