

**West Texas A&M University**  
**Advising Services**  
**Degree Checklist**  
**2021-2022**

(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 26<sup>th</sup> St.) (806)651-2940**

<b>CORE CURRICULUM COURSES: 42 HOURS ♦</b>		<b>HRS</b>	<b>AC</b>
<b>Communication (Code 10)</b>			
ENGL 1301 Introduction to Academic Writing and Argumentation		3	
COMM 1315, 1318, or 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, 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 (Code 50)</b>			
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1		3	
<b>American History (Code 60)</b>			
HIST 1301, 1302, 2301, 2381, 2382 Choose 2		6	
<b>Government/Political Science (Code 70)</b>			
POSC 2305 and 2306		6	
<b>Social and Behavioral Sciences (Code 80)</b>			
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1		3	
<b>Component Area Option (Code 90)</b>			
See University Core Requirements below		(6)	
<b>CHEMISTRY—OPTION II (GENERAL CHEMISTRY) MAJOR REQUIREMENTS: 63-69 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*, 1316*, 1324*, 2412*[3], or 2413*[3]	<b>AC</b>	3	
<b>CORE 30</b>			
CHEM 1411*[3] Chemistry I	<b>AC</b>	3	
<b>CORE 30</b>			
CHEM 1412*[3] Chemistry II	<b>AC</b>	3	
<b>CORE 90</b>			
ENGL 1302* or 2311*	<b>AC</b>	3	
<b>CORE 90</b>			
CHEM 1411L[1], 1412L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]		3	
<b>GENERAL CHEMISTRY (OPTION II): 48-54 HOURS</b>			
CHEM 2423*, 2423L Organic Chemistry I	<b>AC</b>	4	
CHEM 2425*, 2425L Organic Chemistry II	<b>AC</b>	4	
CHEM 3201* Chemical Literature		2	
CHEM 4103* Seminar in Chemistry		1	
CHEM 3511*, 3511L Analytical Chemistry		5	
<b>Take three courses from:</b>			
CHEM 3421*, 3421L Physical Chemistry I		12-14	
CHEM 3422*, 3422L Physical Chemistry II			
CHEM 4411*, 4411L Instrumental Analysis			
CHEM 4323* and 4223L Biochemistry I/ Biochemistry I Laboratory			
CHEM 4324* and 4224L Biochemistry II/ Biochemistry II Laboratory			
CHEM 4431*, 4431L Inorganic Chemistry			
MATH 1316* Plane Trigonometry OR MATH 2412* Pre-Calculus (if not taken to satisfy Core 20)	<b>AC</b>	0-4	

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

MATH 2413* Calculus I	<b>AC</b>	4	
MATH 2414* Calculus II	<b>AC</b>	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	<b>AC</b>	8	
CHEM 4370* (MPS 4370) Senior Investigations OR MPS 4393* Math/Physical Science/Engineering Technology Honors		3	
<b>ADVANCED ELECTIVES: 15-17 HOURS—SEE NOTE II</b>			
<b>ADVANCED ELECTIVES</b> Additional advanced (3000- or 4000-level) hours to provide a minimum of 39 hours selected from chemistry, mathematics, biology, computer science, physics, environmental science or geology.		15-17	
<b>BACHELOR OF SCIENCE REQUIREMENTS</b> Covered by requirements for major.			<b>OPTION</b>
<b>ELECTIVES: 9-13 HOURS BY ADVISEMENT ♦</b>			
<b>ELECTIVES</b>		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: Option II is recommended for students whose career goals are to enter education or chemistry-related fields.

NOTE II: 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

## 2021-2022 Curriculum Guide

**Major:** Chemistry - Opt. II - General Chemistry, B.S.

**Major Code:** 104

First Year																																																	
<b>Fall</b> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border: 1px solid black; padding: 2px;">CORE 10 - ENGL 1301</td><td style="border: 1px solid black; text-align: right; padding: 2px;">3</td></tr> <tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">CORE 20 - MATH 1316 or 2412</td><td style="border: 1px solid black; text-align: right; padding: 2px;">3</td></tr> <tr><td style="border: 1px solid black; padding: 2px;">(4th hr. of MATH 2412 counts towards Core 90)</td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">CHEM 1411/1411L</td><td style="border: 1px solid black; text-align: right; padding: 2px;">4</td></tr> <tr><td style="border: 1px solid black; padding: 2px;">-4th (lab) hour counts towards Core 90.</td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">CORE - See checklist for options</td><td style="border: 1px solid black; text-align: right; padding: 2px;">3</td></tr> <tr><td style="border: 1px solid black; padding: 2px;">(see also Note 1 below)</td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">CORE 90 - See checklist or Note 2</td><td style="border: 1px solid black; text-align: right; padding: 2px;">1</td></tr> <tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">Semester Hours</td><td style="border: 1px solid black; text-align: right; padding: 2px;">14</td></tr> </table>	CORE 10 - ENGL 1301	3			CORE 20 - MATH 1316 or 2412	3	(4th hr. of MATH 2412 counts towards Core 90)		CHEM 1411/1411L	4	-4th (lab) hour counts towards Core 90.		CORE - See checklist for options	3	(see also Note 1 below)		CORE 90 - See checklist or Note 2	1					Semester Hours	14	<b>Spring</b> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border: 1px solid black; padding: 2px;">CORE 90 - ENGL 1302 or 2311</td><td style="border: 1px solid black; text-align: right; padding: 2px;">3</td></tr> <tr><td style="border: 1px solid black; padding: 2px;">(required for major)</td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">MATH 2413</td><td style="border: 1px solid black; text-align: right; padding: 2px;">4</td></tr> <tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">CHEM 1412/1412L</td><td style="border: 1px solid black; text-align: right; padding: 2px;">4</td></tr> <tr><td style="border: 1px solid black; padding: 2px;">-4th (lab) hour counts towards Core 90.</td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">CORE - See checklist for options</td><td style="border: 1px solid black; text-align: right; padding: 2px;">3</td></tr> <tr><td style="border: 1px solid black; padding: 2px;">(see also Note 1 below)</td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">CORE - See checklist for options</td><td style="border: 1px solid black; text-align: right; padding: 2px;">3</td></tr> <tr><td style="border: 1px solid black; padding: 2px;">(see also Note 1 below)</td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td></tr> <tr><td style="border: 1px solid black; padding: 2px;">Semester Hours</td><td style="border: 1px solid black; padding: 2px;"> </td></tr> </table>	CORE 90 - ENGL 1302 or 2311	3	(required for major)		MATH 2413	4			CHEM 1412/1412L	4	-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)				Semester Hours	
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### 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).

**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.

**Note 3 - Chemistry Electives:** Take three courses from CHEM 3421, 3422, 4411, 4323 and 4223L, 4324 and 4224L, 4431.