

**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>FPC</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*;<br>HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374;<br>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<br>(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,<br>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><br>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>FPC</b> | 3          |            |
| <b>CORE 30</b>  |            |            |            |
| CHEM 1411*[3] Chemistry I   | <b>FPC</b> | 3          |            |
| <b>CORE 30</b>  |            |            |            |
| CHEM 1412*[3] Chemistry II  | <b>FPC</b> | 3          |            |
| <b>CORE 90</b>  |            |            |            |
| ENGL 1302* or 2311*   | <b>FPC</b> | 3          |            |
| <b>CORE 90</b>  |            |            |            |
| CHEM 1411L[1], 1412L[1] AND<br>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>FPC</b> | 4          |            |
| CHEM 2425*, 2425L Organic Chemistry II  | <b>FPC</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<br>MATH 2412* Pre-Calculus<br>(if not taken to satisfy Core 20)  | <b>FPC</b> | 0-4        |            |

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

|   |            |       |               |
|---|------------|-------|---------------|
| MATH 2413* Calculus I   | <b>FPC</b> | 4     |               |
| MATH 2414* Calculus II  | <b>FPC</b> | 4     |               |
| PHYS 1401*, 1401L General Physics I AND<br>PHYS 1402*, 1402L General Physics II<br>OR<br>PHYS 2425*, 2425L Calculus Physics I AND<br>PHYS 2426*, 2426L Calculus Physics II  | <b>FPC</b> | 8     |               |
| CHEM 4370* (MPS 4370) Senior Investigations OR<br>MPS 4393* Math/Physical Science/Engineering<br>Technology Honors  |            | 3     |               |
| <b>ADVANCED ELECTIVES: 15-17 HOURS—SEE NOTE II</b>  |            |       |               |
| <b>ADVANCED ELECTIVES</b><br>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><br>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.**

