

**West Texas A&M University
Advising Services
Degree Checklist
2015-2016**

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

NAME: _____ WT ID: _____ DATE: _____

**Chemistry Option II—General Chemistry
Department of Mathematics, Chemistry and Physics
Classroom Center, Room 420 (806)651-2540**

| CORE CURRICULUM COURSES: 42 HOURS ♦ | | HRS |
|--|-------|-----|
| Communication (Code 10) | | |
| ENGL 1301 Introduction to Academic Writing and Argumentation | 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; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, 2315*/**, or 2371 Choose 1 | 3 | |
| Creative Arts (Code 50) | | |
| ARTS 1303, ARTS 1304; DANC 2303; HUMA 1315; MUSI 1306 or 1208 and 1209* (extra MUSI hour moves to Code 90); or THRE 1310 Choose 1 | 3 | |
| American History (Code 60) | | |
| HIST 1301, 1302, 2301, 2381 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; 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: 62-68 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): 47-53 HOURS | | |
| CHEM 2523*, 2523L Organic Chemistry I | 5 | |
| CHEM 2525*, 2525L Organic Chemistry II | 5 | |
| CHEM 3511*, 3511L Analytical Chemistry | 5 | |
| Take three courses from: CHEM 3521*, 3521L Physical Chemistry I CHEM 3522*, 3522L 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 | 13-15 | |

**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 OR MPS 4393* Math/Physical Science/Engineering Technology Honors | 3 | |
| ADVANCED ELECTIVES: 16-18 HOURS—SEE NOTE II | | |
| ADVANCED ELECTIVES 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. | 16-18 | |
| 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 | 0-1 | |
| 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 provides a background for students whose career goals are to enter education or chemistry-related fields.

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. After completing 30 hours, students are encouraged to request an official degree plan in the office of the dean of the College of Agriculture, Science and Engineering, located in the Agriculture and Natural Sciences Building, Room 106 (or call 651-2585). Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.



| First Year | | | | | |
|---------------------------------|--|---|---------------------------------|--|---|
| Fall | | | Spring | | |
| H o u r s 14 | CORE 10-ENGL 1301 | 3 | H o u r s 17 | CORE 90-ENGL 1302 or 2311 | 3 |
| | CORE 20-MATH 1316 or 2412* | 3 | | MATH 2413 | 4 |
| | CHEM 1411/1411L | 4 | | CHEM 1412/1412L | 4 |
| | CORE 60-HIST 1301, 1302, 2301 or 2381 | 3 | | CORE 10-COMM 1315, 1318 or 1321 | 3 |
| | CORE 90-IDS 1071** | 1 | | CORE 60-HIST 1301, 1302, 2301 or 2381 | 3 |
| | | | | | |

| Second Year | | | | | |
|---------------------------------|------------------------------|---|---------------------------------|------------------------------|---|
| Fall | | | Spring | | |
| H o u r s 15 | MATH 2414 | 4 | H o u r s 14 | CHEM 2525/2525L | 5 |
| | CHEM 2523/2523L | 5 | | CORE 80 | 3 |
| | CORE 50 | 3 | | See Checklist for Options | |
| | See Checklist for Options | | | BA REQUIREMENT | 3 |
| | CORE 70-POSC 2305 or 2306 | 3 | | See Checklist for Options | |
| | | | | CORE 70-POSC 2305 or 2306 | 3 |

| Third Year | | | | | |
|---------------------------------|----------------------------------|---|---------------------------------|----------------------------------|---|
| Fall | | | Spring | | |
| H o u r s 15 | CHEM 3511/3511L | 5 | H o u r s 15 | PHYS 1402/1402L or 2426/2426L | 4 |
| | PHYS 1401/1401L or 2425/2425L | 4 | | BA REQUIREMENT | 3 |
| | CORE 40 | 3 | | See Checklist for Options | |
| | See Checklist for Options | | | CHEM ELECTIVE | 4 |
| | CHEM ELECTIVE | 3 | | See Checklist for Options | |
| | See Checklist for Options | | | ADV ELECTIVE | 4 |

| Fourth Year | | | | | |
|---------------------------------|---------------------------|---|---------------------------------|---------------------------|---|
| Fall | | | Spring | | |
| H o u r s 17 | CHEM ELECTIVE | 5 | H o u r s 13 | ADV ELECTIVE | 3 |
| | See Checklist for Options | | | See Checklist for Options | |
| | ADV ELECTIVE | 4 | | ADV ELECTIVE | 3 |
| | See Checklist for Options | | | See Checklist for Options | |
| | ADV ELECTIVE | 4 | | BA REQUIREMENT | 4 |
| | See Checklist for Options | | | Foreign Language | |

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 45 hours. Students should always seek the advice of their academic adviser before scheduling classes.

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

* MATH 2412 is recommended over MATH 1316 for this degree plan.

** MATH 2412 (1) or MATH 2413 (1) can substitute for IDS 1071 (1) if these are used to satisfy CORE 20 requirements.