# West Texas A\&M University Advising Services Degree Checklist <br> 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 |  |  |
| :---: | :---: | :---: |
| CORE CURRICULUM COURSES: 42 HOURS | HRS |  |
| Communication (Code 10) |  |  |
| ENGL 1301 Intro. to Academic Writing \& Argumentation OR <br> 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 <br> REQUIREMENTS: 63-69 HOURS <br> A grade of " C " or better must be earned in all courses required for major. |  |  |
| UNIVERSITY CORE REQUIREMENTS: 15 HOURS * |  |  |
| CORE 20 <br> MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] | 3 |  |
| $\frac{\text { CORE } 30}{\text { CHEM } 1411^{*}[3] \text { Chemistry I }}$ | 3 |  |
| CORE 30 <br> CHEM 1412*[3] Chemistry II | 3 |  |
| $\begin{aligned} & \hline \text { CORE } 90 \\ & \text { ENGL } 1302^{*} \text { or } 2311^{*} \end{aligned}$ | 3 |  |
| CORE 90 <br> CHEM 1411L[1], 1412L[1] AND <br> 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: <br> CHEM 3421*, 3421L Physical Chemistry I <br> CHEM 3422*, 3422L Physical Chemistry II <br> CHEM 4411*, 4411L Instrumental Analysis <br> CHEM 4323* and 4223L Biochemistry I/ Biochemistry I <br> Laboratory <br> CHEM 4324* and 4224L Biochemistry II/ Biochemistry II Laboratory CHEM 4431*, 4431L Inorganic Chemistry | $\begin{gathered} 12- \\ 14 \end{gathered}$ |  |
| MATH 1316* Plane Trigonometry OR MATH $2412^{*}$ Pre-Calculus (if not taken to satisfy Core 20) | 0-4 |  |

(if not taken to satisfy Core 20)

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

| MATH 2413* Calculus I | 4 |  |
| :--- | :--- | :--- | :--- |
| MATH 2414* Calculus II | 4 |  |
| PHYS 1401*, 1401L General Physics I AND <br> PHYS 1402*, 1402L General Physics II <br> OR | 8 |  |
| PHYS 2425*, 2425L Calculus Physics I AND <br> PHYS 2426*, 2426L Calculus Physics II |  |  |
| CHEM 4370* (MPS 4370) Senior Investigations (must seek <br> faculty consent to be enrolled) OR <br> MPS 4393* Math/Physical Science/Engineering <br> Technology Honors | 3 |  |
| ADVANCED ELECTIVES: 15-17 HOURS-SEE NOTE II |  |  |
| ADVANCED ELECTIVES <br> Additional advanced (3000- or 4000-level) hours to provide a <br> minimum of 36 hours selected from chemistry, mathematics, <br> biology, computer science, physics, environmental science or <br> geology. | $15-$ |  |

* 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: 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.

| Major: Chemistry Opt. II - General Chemistry, B.S. |  | 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 90 (Component Area Option) - See ${ }^{\mathbf{2}}$ below | 1 | CORE - See checklist for options ${ }^{1}$ | 3 |
| Total: | 14-15 | 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 | 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 | Elective (by advisement) | 4 |
| Total: | 14 | Total: | 14 |
| 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 | 4 | CORE - See checklist for options ${ }^{1}$ | 3 |
| Advanced Elective | 4 | Advanced Elective | 4 |
| Total: | 17 | Total: | 15 |
| Year 4: Fall |  | Year 4: Spring |  |
| Chemistry Elective(3) - See checklist for options | 4 | CHEM 4370 Senior Investigations (must seek faculty consent) or MPS 4393 Math/Physical Science/ET Honors | 3 |
| Advanced Elective | 5 | CHEM 3201 Chemical Literature | 2 |
| Elective (by advisement) | 3 | Advanced Elective | 5 |
| Elective (by advisement) | 3 | CHEM 4103 Seminar in Chemistry | 1 |
|  |  | Elective (by advisement) | 3 |
| Total: | 15 | Total: | 14 |

[^0]|  | Identified Marketable Skills | Top Three Local Employers or Industries/Professional Programs/Possible Career <br> Opportunities |
| :--- | :--- | :--- |
| Procedure development <br> Chemical analysis <br> Data analysis | Bell Helicopter <br> Pantex <br> 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.


[^0]:    ${ }^{1}$ 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.
    ${ }^{2}$ 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.

