# Unofficial Degree Planning Worksheet Catalog Year: 2023 – 2024

# Major: BS in Chemistry

This worksheet is designed to help you plan and track your progress toward your degree. It lists all graduation requirements. Course descriptions are available in the current catalog. More detailed descriptions of the program can be found in the [2023 – 2024 catalog](http://www.ut.edu/catalog).

## University Graduation Requirements

Students must earn 124 hours to be eligible for graduation.

Students must maintain an overall minimum GPA of 2.0 to be eligible for graduation.

Students must maintain a major minimum GPA of 2.0 to be eligible for graduation.

Students must complete 31 credit hours in residency at UT to be eligible for graduation.

Students must complete 15 credit hours in residency at UT in their major coursework.

## Spartan Studies Requirements

### First-Year

| **First-year Requirement** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| UTAMPA 101 (1cr)/102 (1cr) – First-Year seminar two semester sequence **or** UTAMPA 103 (2cr) – Transfer student seminar  **or** UTAMPA 104 (2cr) Veteran student seminar  – must be taken in residency |  |  |
| AWR 101 (4cr) - Reading Locally & Globally  **or** AWR 110 (5cr) – Academic Writing for Multilingual Students |  |  |
| Math (4cr) Requirement (choose one):  MAT 155, MAT 160, MAT 170, MAT 201, MAT 225, MAT 260, MAT 261 | MAT 260 |  |

### Core

| **Core Requirement** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| AWR 201 (4cr) – Writing and Research: The Local and the Global  *Pre-requisite (one of the following): AWR 101, AWR 110, or equivalent* |  |  |
| [Core Humanities](https://www.ut.edu/uploadedFiles/Academics/Provost/SpartanStudies/SpartanStudies_CoreHumanitiesLink.pdf) (4cr) – must be taken in residency, AWR 201 is a prerequisite or must be taken concurrently |  |  |
| [Core Social Science](https://www.ut.edu/uploadedFiles/Academics/Provost/SpartanStudies/SpartanStudies_CoreSocialSciencesLink.pdf) (4cr) – must be taken in residency, AWR 201 is a prerequisite or must be taken concurrently |  |  |
| UTAMPA 200 (1cr) Digital Literacy: Coding  **or** one of the following: CSC 101, ITM 251, MAT 285, PHY 180 |  |  |
| UTAMPA 201 (0cr) Career Readiness |  |  |
| Spartan Studies Culminating Experience (4cr)  – must be taken in residency  *Pre-requisite: Spartan Studies First-year and Core Requirements (UTAMPA 101/02 or UTAMPA 103 or UTAMPA 104, AWR 101, Math, AWR 201, UTAMPA 200, UTAMPA 201, Core Humanities, Core Social Science); individual courses may have additional pre-requisites* |  |  |

### Distribution Requirements

Note that **one** of the distribution requirements may also be used to meet requirements in the major if there is overlap.

| **Distribution Requirement** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| [Social or Behavioral Science](https://www.ut.edu/uploadedFiles/Academics/Provost/SpartanStudies/SpartanStudies_SocialScienceDistributionLink.pdf) (4cr) |  |  |
| [Visual and Performing Arts](https://www.ut.edu/uploadedFiles/Academics/Provost/SpartanStudies/SpartanStudies_VisualandPerformingArtsLink.pdf) (3cr) |  |  |
| [Text-Based Humanities](https://www.ut.edu/uploadedFiles/Academics/Provost/SpartanStudies/SpartanStudies_Text-BasedHumanitiesDistributionLink.pdf) (4cr) |  |  |
| [Natural Science](https://www.ut.edu/uploadedFiles/Academics/Provost/SpartanStudies/Spartanstudies_NaturalScienceDistributionLink.pdf) (4cr) | CHE 152/3L |  |

## Chemistry Requirements (67-68 Credits)

### Chemistry Requirements

| **Chemistry Requirements (62 Credits)** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| BIO 198 (3cr) – General Biology I (1)  *Pre/Co-requisite: CHE 152 and CHE 153L*  *Co-requisite: BIO 198L* |  |  |
| BIO 198L (1cr) – General Biology I (1) Laboratory  *Pre/Co-requisite: CHE 152 and CHE 153L*  *Co-requisite: BIO 198* |  |  |
| CHE 152 (3cr) – General Chemistry I (1) (Can fulfill Spartan Studies Distribution Requirement)  *Pre-requisite: MAT 160*  *Pre/Co-requisite: CHE 153L (with a grade of “C” or better)* |  |  |
| CHE 153L (1cr) – General Chemistry I (1) Laboratory (Can fulfill Spartan Studies Distribution Requirement)  *Pre/Co-requisite: CHE 152 (with a grade of “C” or better)* |  |  |
| CHE 154 (3cr) – General Chemistry II (2)  *Pre-requisite: CHE 152 and CHE 153L (both with a grade of “C” or better)*  *Pre/Co-requisite: CHE 155L (with a grade of “C” or better) and MAT 170* |  |  |
| CHE 155L (1cr) – General Chemistry II (2) Laboratory  *Pre-requisite: CHE 152 and CHE 153L (both with a grade of “C” or better)*  *Pre/Co-requisite: CHE 154 (with a grade of “C” or better)* |  |  |
| CHE 232 (3cr) – Organic Chemistry I (1)  *Pre-requisite: CHE 154 and CHE 155L (both with a grade of “C” or better)*  *Pre/Co-requisite: CHE 233L (with a grade of “C” or better)* |  |  |
| CHE 233L (1cr) – Organic Chemistry I (1) Laboratory  *Pre/Co-requisite: CHE 232 (with a grade of “C” or better)* |  |  |
| CHE 234 (3cr) – Organic Chemistry II (2)  *Pre-requisite: CHE 232 and CHE 233L (both with a grade of “C” or better)*  *Pre/Co-requisite: CHE 235L (with a grade of “C” or better)* |  |  |
| CHE 235L (1cr) – Organic Chemistry II (2) Laboratory  *Pre/Co-requisite: CHE 234 (with a grade of “C” or better)* |  |  |
| CHE 245 (4cr) – Intermediate Inorganic Chemistry  *Pre-requisite: CHE 154 and CHE 155L (both with a grade of “C” or better)*  *Co-requisite: CHE 245L* |  |  |
| CHE 245L (0cr) – Intermediate Inorganic Chemistry Laboratory  *Co-requisite: CHE 245* |  |  |
| CHE 310 (4cr) – Analytical Chemistry  *Pre-requisite: CHE 154 and CHE 155L (both with a grade of “C” or better)*  *Co-requisite: CHE 310L* |  |  |
| CHE 310L (0cr) – Analytical Chemistry Laboratory  *Co-requisite: CHE 310* |  |  |
| CHE 320 (3cr) – Biochemistry  *Pre-requisite: CHE 234 and CHE 235L (both with a grade of “C” or better)* |  |  |
| CHE 352 (3cr) – Physical Chemistry I (1)  *Pre-requisite: CHE 310 (with a grade of “C” or better), MAT 261 (with a grade of “C” or better) and PHY 206.* |  |  |
| CHE 353L (1cr) – Physical Chemistry I (1) Laboratory  *Pre/Co-requisite: CHE 352* |  |  |
| CHE 354 (3cr) – Physical Chemistry II (2)  *Pre-requisite: CHE 352 and CHE 353L (both with a grade of “C” or better)* |  |  |
| CHE 355L (1cr) – Physical Chemistry II (2) Laboratory  *Pre/Co-requisite: CHE 354* |  |  |
| CHE 425 (3cr) – Advanced Inorganic Chemistry  *Pre-requisite: CHE 245, CHE 310 (both with a grade of “C” or better), MAT 261, and PHY 206* |  |  |
| CHE 430 (4cr) – Advanced Instrumental Chemistry  *Pre-requisite: CHE 234, CHE 235L, CHE 310 and either CHE 245 or CHE 432 (all with a grade of “C” or better)*  *Co-requisite: CHE 430L* |  |  |
| CHE 430L (0cr) – Advanced Instrumental Chemistry Laboratory  *Co-requisite: CHE 430* |  |  |
| PHY 205 (4cr) – General Physics with Calculus I (1)  *Pre-requisite: MAT 170 or equivalent*  *Co-requisite: MAT 260 and PHY 205L* |  |  |
| PHY 206 (4cr) – General Physics with Calculus II (2)  *Pre-requisite: MAT 260 and PHY 205 (with a grade of “C” or better)*  *Co-requisite: PHY 206L* |  |  |
| MAT 260 (4cr) – Calculus I (1) (Can fulfill Spartan Studies Mathematics Requirement)  *Pre-requisite: MAT 170 with a grade of “C” or higher, or equivalent* |  |  |
| MAT 261 (4cr) – Calculus II (2)  *Pre-requisite: MAT 260 with a grade of “C” or higher* |  |  |

### Chemistry Elective Requirement

| **Chemistry Elective Requirement (3 Credits)** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| CHE 426 (3cr) – Advanced Organic Chemistry  *Pre-requisite: CHE 234 and CHE 235L (both with a grade of “C” or better)*  **or** CHE 445 (3cr) – Advanced Organic Spectroscopy  *Pre-requisite: CHE 234 and CHE 235L (both with a grade of “C” or better)*  **or** CHE 499 (1-4cr) – Special Topics in Chemistry  *Pre-requisite: Consent of Instructor* |  |  |

### Senior Capstone Requirement

| **Senior Capstone Requirements (2-3 Credits)**  2 credits of CHE 410 or CHE 453 are required; or 2 cumulative credits of CHE 451 plus 1 credit of CHE 454. | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| CHE 410 (2cr) – Senior Seminar  *Pre-requisite: CHE 234, CHE 235L, CHE 310 (all with a grade of “C” or better) and at least one of the following (with a grade of “C” or better): CHE 245, CHE 320, or (CHE 352 and CHE 353L)*  **or** CHE 453 (1-4cr) – Chemistry Internship  *Pre-requisite: CHE 234, CHE 235L, CHE 310 (all with a grade of “C” or better) and at least one of the following (with a grade of “C” or better): CHE 245, CHE 320, or (CHE 352 and CHE 353L). Must have 56 credit hours earned, minimum GPA of 2.5 in the major or approval of department chairperson.*  **or** CHE 451 (1-2cr) – Capstone Chemical Research  *Pre-requisite: Consent of Instructor*  **and** CHE 454 (1cr) – Capstone Chemical Communication  *Pre-requisite: Completion of at least two hours of CHE 451.* |  |  |

### Additional Notes

| **Additional Notes** |
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| PHY200/201/307 may substitute for PHY 205/206. This is relevant for students changing their major to the B.S. Marine Chemistry, after they have taken PHY 200/PHY. |