

# **Unofficial Degree Planning Worksheet**

# *Catalog Year: 2021-2022*

# BS in CHEMISTRY, ACS-CERTIFIED

| This worksheet is designed to help you plan and track your progress toward your degree. It lists all the graduation requirements. For full course descriptions, please refer to the current undergraduate [Catalog](https://www.ut.edu/academics/university-catalogs). | Course Taken or Transferred In | Semester Taken or Course Remaining |
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| **UNIVERSITY GRADUATION REQUIREMENTS** |
| [ ] Students must earn 124 hours to be eligible for graduation.[ ] Students must maintain an overall GPA of a 2.0 to be eligible for graduation.[ ] Students must complete 31 of the last 35 hours in residency at UT. |
| **BACCALAUREATE EXPERIENCE REQUIREMENTS*****Courses used for Baccalaureate Experience may not be used in the major (unless otherwise stated in the catalog).*** |
| Two-Year Learning Community |
| BAC 100 (0cr) – Digital Skills |  |  |
| BAC/HON 101/102 (2cr) – First-Year Seminar (two semester sequence)BAC 103 (1cr) – Transfer Student Seminar (one semester course) *- Optional*BAC 104 (1cr) – Veteran Student Seminar (one semester course) |  |  |
| AWR 101 (4cr) – Writing and Inquiry* *Domestic Students may be required to take AWR 100 based on English Placement.*
* *International Students may be required to take AWR 110 before AWR 101 or AWR 111 in conjunction with AWR 101 based on English Placement.*
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| AWR 201 (4cr) – Writing and Research *Recommended to take in the second year* |  |  |
| Mathematics (4cr) – MAT 260 – Calculus I (1) – **FULFILLED BY MAJOR** |  |  |
| Natural Science – NS (6 Credits) – FULFILLED BY MAJOR***Must be lecture course, not a lab.*** |
| Biological Science (3cr) – BIO 198 – General Biology I (1)  |  |  |
| Chemical or Physical Science (3cr) – CHE 152 – General Chemistry I (1)  |  |  |
| Humanities – HFA (11 Credits) |
| * *Must have at least two different disciplines represented.*
* *May only apply up to 4 credits of Studio/Performance courses.*

*Courses to fulfill this requirement may be found in the following disciplines: animation, dance, English/literature, film, foreign languages, linguistics, music, new media, philosophy, religion, speech and theatre, plus those art, communication, writing and women’s and gender studies courses so designated in the Course Descriptions section of the catalog.* |  |  |
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| Social Science – SS (11 Credits) |
| * *Must have at least two different disciplines represented.*

*Courses to fulfill this requirement may be found in the following disciplines:* *economics, geography, history, political science, psychology, sociology, and urban studies, plus those communication, criminology, law justice and advocacy, and women’s and gender studies courses so designated in the Course Descriptions section of the catalog.* |  |  |
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| Art/Aesthetic – A (3 Credits)***Can come from anywhere in the curriculum.*** |
| *Art/aesthetic courses are devoted primarily to the development of skills in human expression for the purpose of engaging the aesthetic sense, or courses devoted primarily to the development of students’ critical appreciation of aesthetics. Courses can be found in multiple disciplines, see Course Search or Catalog to find courses.* |  |  |
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| Non-Western and International/Global Awareness – NW/IG (9 Credits)***Can come from anywhere in the curriculum.*** |
| Non-Western (3cr) *Deal in either a direct or comparative way with political, social, or cultural issues within the context of non-Western or Third World concerns.* |  |  |
| International/Global Awareness (3cr)*Deal in a direct or comparative way with political, social, cultural or economic issues impacting the international and/or global arena.* |  |  |
| Non-Western or International/Global Awareness (3cr) |  |  |
| Writing Intensive – W (9 Credits)***Can come from anywhere in the curriculum.*** |
| *Courses in addition to AWR 101 and AWR 201 that emphasize writing as a process of learning and communicating. Some credits may be waived for transfer students, please refer to the Catalog for more information.* |  |  |
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| **MAJOR REQUIREMENTS (67-68 Credits)** |
| BIO 198 (3cr) – General Biology I (1) ***Pre/Co-Req:*** *CHE 152 and CHE 153L****Co-Req:*** *BIO 198L* |  |  |
| BIO 198L (1cr) – General Biology I (1) Laboratory***Pre/Co-Req:*** *CHE 152 and CHE 153L****Co-Req:*** *BIO 198* |  |  |
| CHE 152 (3cr) – General Chemistry I (1) ***Pre-Req:*** *MAT 160****Pre/Co-Req:*** *CHE 153L (with grade of C or better)* |  |  |
| CHE 153L (1cr) – General Chemistry I (1) Laboratory***Pre/Co-Req:*** *CHE 152 (with grade of C or better)* |  |  |
| CHE 154 (3cr) – General Chemistry II (2) ***Pre-Req:*** *CHE 152 and CHE 153L (both with a grade of C or better)****Pre/Co-Req:*** *CHE 155L (with grade of C or better) and MAT 170* |  |  |
| CHE 155L (1cr) – General Chemistry II (2) Laboratory***Pre-Req:*** *CHE 152 and CHE 153L (both with a grade of C or better)****Pre/Co-Req:*** *CHE 154 (with grade of C or better)* |  |  |
| CHE 232 (3cr) – Organic Chemistry I (1) ***Pre-Req:*** *CHE 154 and CHE 155L (both with a grade of “C” or better)* ***Pre/Co-Req:*** *CHE 233L (with a grade of “C” or better* |  |  |
| CHE 233L (1cr) – Organic Chemistry I (1) Laboratory***Pre/Co-Req:*** *CHE 232 (with a grade of “C” or better* |  |  |
| CHE 234 (3cr) – Organic Chemistry II (2) ***Pre-Req:*** *CHE 232 and CHE 233L (both with a grade of “C” or better)* ***Pre/Co-Req:*** *CHE 235L (with a grade of “C” or better* |  |  |

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| CHE 235L (1cr) – Organic Chemistry II (2) Laboratory***Pre/Co-Req:*** *CHE 234 (with a grade of “C” or better* |  |  |
| CHE 310 (4cr) – Analytical Chemistry***Pre-Req:*** *CHE 154 and CHE 155L (both with a grade of "C" or better).****Co-Req:*** *CHE 310L* |  |  |
| CHE 310L (0cr) – Analytical Chemistry Laboratory***Co-Req:*** *CHE 310* |  |  |
| PHY 205 (4cr) – General Physics with Calculus I (1) ***Pre-Req:*** *MAT 170 or equivalent****Co-Req:*** *MAT 260 and**PHY 205L* |  |  |
| PHY 206 (4cr) – General Physics with Calculus II (2) ***Pre-Req:*** *MAT 260 and PHY 205 with a grade of “C” or better****Co-Req:*** *PHY 206L* |  |  |
| MAT 260 (4cr) – Calculus I (1) ***Pre-Req:*** *MAT 170 with a grade of “C” or higher, or equivalent*  |  |  |
| MAT 261 (4cr) – Calculus II (2) ***Pre-Req:*** *MAT 260 with a grade of "C" or higher.* |  |  |
| CHE 245 (4cr) – Intermediate Inorganic Chemistry ***Pre-Req:*** *CHE 154 and CHE 155L (both with a grade of "C" or better).****Co-Req:*** *CHE 245L* |  |  |
| CHE 245L (0cr) – Intermediate Inorganic Chemistry Laboratory***Co-Req:*** *CHE 245* |  |  |
| CHE 320 (3cr) – Biochemistry***Pre-Req:*** *CHE 234 and CHE 235L (both with a grade of "C" or better).* |  |  |
| CHE 352 (3cr) – Physical Chemistry I (1) ***Pre-Req:*** *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-Req:*** *CHE 352* |  |  |
| CHE 354 (3cr) – Physical Chemistry II (2) ***Pre-Req:*** *CHE 352 and CHE 353L (both with a grade of "C" or better).* |  |  |
| CHE 355L (1cr) – Physical Chemistry II (2) Laboratory***Pre/Co-Req:*** *CHE 354* |  |  |
| CHE 425 (3cr) – Advanced Inorganic Chemistry***Pre-Req:*** *CHE 245, CHE 310 (both with a grade of "C" or better), MAT 261, and PHY 206.* |  |  |
| CHE 430 (4cr) – Advanced Instrumental Chemistry***Pre-Req:*** *CHE 234, CHE 235L, CHE 245 and CHE 310 (all with a grade of "C" or better).****Co-Req:*** *CHE 430L* |  |  |
| CHE 430L (0cr) – Advanced Instrumental Chemistry Laboratory***Co-Req:*** *CHE 430* |  |  |
| CHE 451 (3cr) – Capstone Chemical Research***Pre-Req:*** *consent of instructor* |  |  |
| CHE 454 (1cr) – Capstone Chemical Communication***Pre-Req:*** *completion of at least two hours of CHE 451.* |  |  |

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| Major Elective (3-4 Credits)Choose one of the following:* CHE 420 – Advanced Biochemistry *(Pre-Req: CHE 320 and CHE 320L both with a grade of “C” or better)*
* CHE 426 – Advanced Organic Chemistry *(Pre-Req: CHE 234 and CHE 235L both with a grade of “C” or better)*
* CHE 445 – Advanced Organic Spectroscopy *(Pre-Req: CHE 234 and CHE 235L both with a grade of “C” or better)*
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| CHE Major Elective (3-4cr) |  |  |
| Recommended Coursework |
| MAT 262 (4cr) – Calculus III (3) ***Pre-Req:*** *MAT 261 with a grade of "C" or higher.* |  |  |
| Major Residency Requirements (15 Credits) |
| *Students must complete at least 15 credit hours in the student’s major.* |
| Minimum Grade Requirement (2.0 GPA) |
| *To earn the ACS certificate associated with this degree, students must earn at least a “C” in every class required for the major. This does not change or enhance the graduation requirements for this major.* |
| Major GPA Requirements |
| *Students must maintain a major GPA of a 2.0 to be eligible for graduation.* |