

# **Unofficial Degree Planning Worksheet**

# *Catalog Year: 2019-2020*

# BS in CHEMISTRY/MASTERS in BUSINESS

| 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](http://www.ut.edu/catalog). | 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 – **FULLFILLED BY MAJOR** |  |  |
| Natural Science – NS (6 Credits) – FULLILLED BY MAJOR***Must be lecture course, not a lab.*** |
| Biological Science (3cr) – BIO 198 – General Biology I |  |  |
| Chemical or Physical Science (3cr) – CHE 152 – General Chemistry I |  |  |
| 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 (139-140 Credits) |
| Chemistry Requirements (67-68 Credits) |
| BIO 198 (3cr) – General Biology I***Pre/Co-Req:*** *CHE 152 and CHE 153L****Co-Req:*** *BIO 198L* |  |  |
| BIO 198L (1cr) – General Biology I Laboratory***Pre/Co-Req:*** *CHE 152 and CHE 153L****Co-Req:*** *BIO 198* |  |  |
| CHE 152 (3cr) – General Chemistry I***Pre-Req:*** *MAT 160****Pre/Co-Req:*** *CHE 153L (with grade of C or better)* |  |  |
| CHE 153L (1cr) – General Chemistry I Laboratory***Pre/Co-Req:*** *CHE 152 (with grade of C or better)* |  |  |
| CHE 154 (3cr) – General Chemistry II***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 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***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 Laboratory***Pre/Co-Req:*** *CHE 232 (with a grade of “C” or better* |  |  |
| CHE 234 (3cr) – Organic Chemistry II***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 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***Pre-Req:*** *MAT 170 or equivalent****Co-Req:*** *MAT 260 and**PHY 205L* |  |  |
| PHY 206 (4cr) – General Physics with Calculus II***Pre-Req:*** *MAT 260 and PHY 205 with a grade of “C” or better****Co-Req:*** *PHY 206L* |  |  |
| PHY 200 (4cr) – General Physics I***Pre-Req:*** *MAT 170****Co-Req:*** *PHY 200L* |  |  |
| PHY 201 (4cr) – General Physics II***Pre-Req:*** *PHY 200****Co-Req:*** *PHY 201L* |  |  |
| MAT 260 (4cr) – Calculus I***Pre-Req:*** *MAT 170 with a grade of “C” or higher, or equivalent*  |  |  |
| MAT 261 (4cr) – Calculus II***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***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 Laboratory***Pre/Co-Req:*** *CHE 352* |  |  |
| CHE 354 (3cr) – Physical Chemistry II***Pre-Req:*** *CHE 352 and CHE 353L (both with a grade of "C" or better).* |  |  |
| CHE 355L (1cr) – Physical Chemistry II 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* |  |  |

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| Chemistry Major Elective (3-4 Credits)Choose one of the following:* 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)*
* CHE 499 – Special Topics in Chemistry *(Pre-Req: Consent of Instructor)*
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| CHE Major Elective (3-4cr) |  |  |
| Senior Capstone (2 Credits)Choose one of the following:* CHE 410 – Senior Seminar *(Pre-Req: 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))*
* CHE 451 – Capstone Chemical Research *(Pre-Req: Consent of Instructor)*
* CHE 453 – Chemistry Internship *(Pre-Req: CHE 234, CHE 235L and 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 305, 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.)*
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| Senior Capstone (2cr) |  |  |
| BUSINESS REQUIREMENTS (68 Credits) |
| COB Lower-Core (24 Credits) |
| BUS 101 (4cr) – Introduction to Global Business***Pre/Co-Req:*** *BAC 100 and AWR 101* |  |  |
| ACC 202 (4cr) – Financial Accounting Information***Pre-Req:*** *MAT 150 or equivalent****Co-Req:*** *BAC 100* |  |  |
| ACC 203 (4cr) – Managerial Accounting***Pre-Req:*** *ACC 202, MAT 150 or equivalent* |  |  |
| ECO 204 (4cr) – Principles of Microeconomics |  |  |
| ECO 205 (4cr) – Principles of Macroeconomics |  |  |
| QMB 210 (4cr) – Business Statistics and Analytics***Pre-Req:*** *BAC 100 and MAT 160* |  |  |
| COB Upper Core (12 Credits) |
| FIN 310 (4cr) – Financial Management***Pre-Req:*** *AWR 101 with a “C” or better, AWR 201, ACC 202, ACC 203, ECO 204, ECO 205, QMB 210, and COB Requirements for taking 300-Level Courses****Co-Req:*** *BAC 100* |  |  |
| MGT 330 (4cr) – Principles of Management***Pre-Req:*** *AWR 101 with a “C” or better, AWR 201, and COB Requirements for taking 300-Level Courses* |  |  |
| MKT 300 (4cr) – Principles of Marketing ***Pre-Req:*** *AWR 101 with a “C” or better, ECO 204, and COB Requirements for taking 300-Level Courses****Pre/Co-Req:*** *BAC 100* |  |  |
| COB MBA Courses (28 Credits) |
| ACC 610 (4cr) – Accounting and Value Creation***Pre-Req:*** *ACC 500 and FIN 500* |  |  |
| BUS 698 (4cr) – Professional Development Practicum***Pre-Req:*** *For graduate students only* |  |  |
| ECO 640 (4cr) – The Economics of Organizations***Pre-Req:*** *ECO 500 and MKT 500* |  |  |
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| FIN 611 (4cr) – Financial Management and Strategy***Pre-Req:*** *ACC 500, ECO 500, FIN 500, and QMB 500.* |  |  |
| ITM 608 (4cr) – Information Systems and Operations Management***Pre-Req:*** *QMB 500, ACC 500, FIN 500, MKT 500, MGT 500, and ECO 500.* |  |  |
| MGT 598 (4cr) – Leadership and Organizational Behavior***Pre-Req:*** *For graduate students only* |  |  |
| MGT 615 (4cr) – Strategic Management***Pre-Req:*** *ACC 610, ECO 640, FIN 611, ITM 608, MGT 598 and MKT 609.* |  |  |
| COB MBA Elective (4 Credits)Choose one of the following:* QMB 612 – Decision Modeling and Analysis *(Pre-Req: foundation courses)*
* ITM 615 – Business Analytics *(Pre-Req: QMB 500)*
* MKT 612 – Business Research Methods *(Pre-Req: MKT 500 and ECO 500. Co-Req: MKT 610)*
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| COB MBA Elective (4cr) |  |  |
| Recommended Coursework |
| MAT 262 (4cr) – Calculus III***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.* |
| Major GPA Requirements |
| *Students must maintain a major GPA of a 2.0 to be eligible for graduation.* |