

Four Year Curriculum Plan Template, Catalog Term: Fall 2011

Major: SC20 - BSCChem, Chemistry-ACS Certifi

Select Catalog term to view: Fall 2011

| Year One | | | |
|--|---|---|-----------------|
| Fall Semester | | Spring Semester | |
| CHM211 Principles of Chemistry I | 3 hours | CHM212 Principles Chemistry II | 3 hours |
| CHM217 Principles of Chem Lab I | 2 hours | CHM218 Principles of Chem Lab II | 2 hours |
| Composition: ENG101 English Composition I (or equivalent) - or ENG200H in Fall 2 | 3 hours | CT Designated Course: | 6 hours |
| FYS 100: FYS100 First Year Seminar | 3 hours | MTH230** | 4 hours |
| Mathematics: MTH229* | 5 hours | | |
| Recommended Hours: | 16 hours | Recommended Hours: | 15 hours |
| Year Two | | | |
| Fall Semester | | Spring Semester | |
| CHM355 Organic Chemistry I | 3 hours | CHM356 Organic Chemistry II | 3 hours |
| PHY202 General Physics Lab | 1 hours | CHM361 Intro Organic Chm Lab | 3 hours |
| PHY211 Principles of Physics | 4 hours | PHY204 General Physics Lab | 1 hours |
| Composition: ENG201 Advanced Composition - or ENG200H | 3 hours | PHY213 Principles of Physics | 4 hours |
| Elective (Can be used toward 2nd major, minor, or certificate) | 3 hours | MTH231** | 4 hours |
| Recommended Hours: | 14 hours | Recommended Hours: | 15 hours |
| Year Three | | | |
| Fall Semester | | Spring Semester | |
| CHM305 Chemical Info Retr/Sci Ethics | 1 hours | CHM332 Chemistry Seminar | 0 hours |
| CHM331 Chemistry Seminar | 0 hours | CHM358 Physical Chemistry II | 4 hours |
| CHM357 Physical Chemistry I | 4 hours | CHM411 Modern Instrument Methods | 4 hours |
| CHM365 Introductory Biochemistry | 3 hours | Communication: CMM103 Fund Speech-Communication - or equivalent | 3 hours |
| Fine Arts: ART112, MUS142, or THE112 | 3 hours | Humanities: | 3 hours |
| MultiCult or Int: | 3 hours | Literature Elective | 3 hours |
| Recommended Hours: | 14 hours | Recommended Hours: | 17 hours |
| Year Four | | | |
| Fall Semester | | Spring Semester | |
| CHM431 Chemistry Seminar | 0 hours | CHM432 Chemistry Seminar | 0 hours |
| CHM448 Adv Inorganic Chemistry I | 4 hours | Social Science: | 3 hours |
| Capstone: CHM491 | 4 hours | Writing Intensive: | 3 hours |
| Writing Intensive: | 3 hours | Capstone: CHM491 | 2 hours |
| Elective (Can be used toward 2nd major, minor, or certificate) | 4 hours | 300 - 499 level Electives (can be used toward 2nd major, minor, or certificate) | 6 hours |
| Recommended Hours: | 15 hours | Recommended Hours: | 14 hours |
| Other Requirements: | | | |
| Minimum Number of Hours to Graduate: | 120 | | |
| Minimum GPA to Graduate: | 2.0 in all required CHM courses and all CHM courses taken at MU | | |
| Other: | | | |
| *If the MTH ACT score is less than 20, students take MTH 098 or MTH 099 then MTH 127 then 122 then 140 based on placement; if the MTH ACT score is 20, students take MTH 127 then MTH 122 then MTH 140; if the MTH ACT score is 21 to 23, students take MTH 130 then MTH 122 then MTH 140; if the MTH ACT score is 24 to 26, students take MTH 140 then MTH 122; if the MTH ACT score is 27 or greater, students may take MTH 140 and MTH 122 or MTH 229. | | | |
| **Students completing MTH 229, 230, 231 and 300 will satisfy a minor in Mathematics. | | | |
| NOTES: | | | |
| 1. A minimum of 120 hours with 40 credit hours at the 300 - 499 level is required for graduation. | | | |
| 2. Core I courses include 3 hours of First Year Seminar (FYS) and 6 hours of Critical Thinking. Core II requires a minimum of 25 hours of 100 - 200 level courses including 6 hours of English Composition; 4 hours of Natural or Physical Science; and 3 hours of Communication, Fine Arts, Humanities, Mathematics, and Social Sciences. The College of Science requires 3 hours of Calculus which satisfies the Core II Mathematics requirement, Literature, 8 additional hours of Natural or Physical Science, and 40 hours of upper level credit. | | | |
| 3. Students are required to complete a minor degree program outside the Department of Chemistry. Consult catalog for discipline specific requirements. Note that students double majoring are not required to have a minor. | | | |
| 4. Coursework listed as Elective may vary for each student. Students are strongly encouraged to use elective hours toward a 2nd major, minor or certificate program. Depending on the path chosen, students may not have electives because programs vary in length and minors range from 12 to 18 hours. Students should see advisors in S213/214 to select a path leading to completion of the program selected. These selections must be | | | |

approved.

5. Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the College of Science literature requirement as well as the Core II writing intensive requirement or an international or multicultural social science course could satisfy both the international or multicultural Core II requirement as well as the social science Core II requirement. See course attributes each semester for courses that meet two or more Core or College requirements.
6. If students follow this graduation plan and do not withdraw or fail classes, or change majors, they can graduate in four academic years. It is not necessary to take the courses in the specific order shown, however if students deviate from the courses approved in the mandatory advising sessions each semester, students may not be able to graduate in four years in accordance with the graduation plan.
7. Course offerings are subject to change semesters. Please consult each semesters schedule of courses for availability.
8. See the [Pre-Professional website](#) for more information on course selections.