STUDENT SUCCESS CENTER

COLLEGE OF SCIENCE AND MATHEMATICS www.umb.edu/ssc

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Sample Four-Year Plan for a BS in Chemistry

| | Fall Semester | Spring Semester |
|----------------|--------------------------------|-------------------------------|
| Freshman Year | Chemistry 115 & 117 – 5 cr | Chemistry 116 & 118 – 5 cr |
| | Biology 111 – 4 cr | Math 140 – 4 cr |
| | Math 130 - 3 cr | English 102 – 3 cr |
| | English 101 – 3 cr | First Year Seminar – 4 cr |
| | (15 credits) | (16 credits) |
| Sophomore Year | Chemistry 251 & 255 – 5 cr | Chemistry 252 & 256 – 5 cr |
| | Math 141 – 4 cr | Physics 113 & 181 – 6 cr |
| | Intermediate Seminar – 3 cr | General Education – 3 cr |
| horr | General Education – 3 cr | General Education – 3 cr |
| Sop | | |
| | (15 credits) | (17 credits) |
| Junior Year † | * Chemistry 311 & 313 – 6 cr | * Chemistry 312 & 314 – 6 cr |
| | Physics 114 & 182 – 6 cr | General Education – 3 cr |
| | Biochemistry 383 – 3 cr | General Education – 3 cr |
| Inioi | | Chemistry Lab Elective – 3 cr |
| Jı | (15 credits) | (15 credits) |
| Senior Year | * Chemistry 369 & 379 – 6 cr | * Chemistry 370 & 371 – 6 cr |
| | * Chemistry 498 – 2 cr | * Chemistry 499 – 2 cr |
| | Chemistry Elective – 3 or 4 cr | Elective – 3 cr |
| | General Education – 3 cr | Elective – 3 cr |
| () | (14-15 credits) | (14 credits) |

^{* -} Class may be offered only once a year.

^{† -} The Writing Proficiency Requirement (WPR) is recommended to be completed at 60-75 credits. Please consult the WPR website: www.umb.edu/academics/vpass/undergraduate_studies/writing_proficiency

[•] This document is a suggested plan for the major. Students must meet with their faculty advisor each semester and refer to their degree audit to ensure adequate progress toward their degree.

Students are strongly advised to select general education courses which fulfill multiple requirements.

See reverse side for more detailed information

Chemistry BS Course Number Guide

This course guide provides the detailed names of courses listed by number on the four-year plans. It is not a comprehensive list of courses for your major, or a substitute for an advising appointment! Consult with your faculty advisor when choosing courses, and check your degree audit regularly.

Biochemistry 383 – Biochemistry I Lecture

Biology 111 – General Biology I Lecture & Laboratory

Chemistry 115 & 117 – Chemical Principles I Lecture & Laboratory

Chemistry 116 & 117 – Chemical Principles II Lecture & Laboratory

Chemistry 251 & 255 – Organic Chemistry I Lecture & Laboratory

Chemistry 252 & 256 – Organic Chemistry II Lecture & Laboratory

Chemistry 311 & 313 – Analytical Chemistry Lecture & Laboratory

Chemistry 312 & 314 – Physical Chemistry Lecture & Laboratory

Chemistry 369 & 379 – Chemical Structure Lecture & Laboratory

Chemistry 370 & 371 – Inorganic Chemistry Lecture & Laboratory

Chemistry 498 – Senior Thesis I

Chemistry 499 – Senior Thesis II

Math 130 – Precalculus

Math 140 - Calculus I

Math 141 – Calculus II

Physics 113 & 181 - Fundamentals of Physics Lecture & Laboratory

Physics 114 & 182 – Fundamentals of Physics II Lecture & Laboratory

<u>Chemistry pass/fail rule</u>: No chemistry or biochemistry courses taken pass/fail may be applied to the major. No more than one mathematics or physics course taken pass/fail may be applied to the major (although some courses have grade pre-requisites).

Additional resources:

www.umb.edu/academics/vpass/undergraduate_studies/general_education_requirements www.umb.edu/academics/course_catalog/search www.umb.edu/academics/csm/student_success_center/degree_planning/math_placement