STUDENT SUCCESS CENTER

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

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Sample Four-Year Plan for a BS in Biochemistry

	Fall Semester	Spring Semester
Freshman Year	Chemistry 115 & 117 – 5 cr	Chemistry 116 & 118 – 5 cr
	Biology 111 – 4 cr	Biology 112 – 4 cr
	Math 130 – 3 cr	Math 145 (or 140) – 4 cr
	English 101 – 3 cr	First Year Seminar – 4 cr
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	(15 credits)	(17 credits)
Sophomore Year	Biology 212 – 3 cr	Biology 254 – 3 cr
	Chemistry 251 & 255 – 5 cr	Chemistry 252 & 256 – 5 cr
	Math 146 (or 141) – 4 cr	Physics 113 & 181 – 6 cr
hon	English 102 – 3 cr	Intermediate Seminar – 3 cr
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O)	(15 credits)	(17 credits)
Junior Year †	* Biochemistry 383 & 385 – 6 cr	* Biochemistry 384 & 386 – 6 cr
	Physics 114 & 182 – 6 cr	Elective – 3 cr
	General Education – 3 cr	General Education – 3 cr
nio		General Education – 3 cr
Ju		
	(15 credits)	(15 credits)
Senior Year	** Biochemistry 491 – 3 cr	* Biology 372 – 3 cr
	* Chemistry 311 & 313 – 6 cr	** Biochemistry 492 – 3 cr
	General Education – 3 cr	* Chemistry 312 – 4 cr
	Elective – 3 cr	Elective – 3 cr
		General Education – 3 cr
	(15 credits)	(16 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

^{** -} Required only for students wishing to graduate with honors; all others can take an elective.

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.

Biochemistry 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 &385 – Biochemistry I Lecture & Laboratory

Biochemistry 384 & 386 – Biochemistry II Lecture & Laboratory

Biochemistry 491 – Directed Research in Biochemistry I

Biochemistry 492 – Directed Research in Biochemistry II

Biology 111 – General Biology I Lecture & Laboratory

Biology 112 – General Biology II Lecture & Laboratory

Biology 212 - Cell Biology Lecture

Biology 254 – Genetics Lecture

Biology 372 – Molecular Biology Lecture

Chemistry 115 &117 – Chemical Principles I Lecture & Laboratory

Chemistry 116 & 118 – 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 and Laboratory

Chemistry 312 – Physical Chemistry

Math 130 - Pre-Calculus

Math 140 – Calculus I

Math 141 – Calculus II

Math 145 – Calculus I for Life and Environmental Sciences

Math 146 – Calculus II for Life and Environmental Sciences

Physics 113 & 181 – Fundamentals of Physics I Lecture & Laboratory

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

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