Sample Four-Year Plan for a BS in Biochemistry

|  | Fall Semester | Spring Semester |
| :---: | :---: | :---: |
|  | Chemistry 115 \& $117-5 \mathrm{cr}$ <br> Biology 111 - 4 cr <br> Math 130 - 3 cr <br> English 101 - 3 cr <br> (15 credits) | Chemistry 116 \& $118-5 \mathrm{cr}$ <br> Biology 112-4 cr <br> Math 145 (or 140)-4 cr <br> First Year Seminar - 4 cr <br> (17 credits) |
|  | Biology 212 - 3 cr <br> Chemistry 251 \& $255-5 \mathrm{cr}$ <br> Math 146 (or 141) - 4 cr English 102 - 3 cr <br> (15 credits) | Biology 254-3 cr <br> Chemistry 252 \& $256-5 \mathrm{cr}$ <br> Physics 113 \& $181-6 \mathrm{cr}$ <br> Intermediate Seminar - 3 cr <br> (17 credits) |
|  | * Biochemistry 383 \& $385-6 \mathrm{cr}$ <br> Physics 114 \& $182-6 \mathrm{cr}$ <br> General Education - 3 cr <br> (15 credits) | * Biochemistry 384 \& 386-6 cr <br> Elective - 3 cr <br> General Education - 3 cr <br> General Education - 3 cr <br> (15 credits) |
|  | ** Biochemistry 491-3 cr <br> * Chemistry 311 \& 313-6 cr <br> General Education - 3 cr Elective - 3 cr <br> (15 credits) | * Biology $372-3 \mathrm{cr}$ <br> ** Biochemistry 492-3 cr <br> * Chemistry 312-4 cr Elective - 3 cr <br> General Education - 3 cr (16 credits) |

*     - Class may be offered only once a year.
$\dagger$ - 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.
- 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

