STUDENT SUCCESS CENTER
UMASS BOSTON

Sample Four-Year Plan for a BS in Chemistry

|  | Fall Semester | Spring Semester |
| :---: | :---: | :---: |
|  | Chemistry 115 \& 117-5 cr <br> Biology 111-4 cr <br> Math 130 - 3 cr <br> English $101-3$ cr <br> (15 credits) | Chemistry 116 \& 118-5 cr <br> Math $140-4 \mathrm{cr}$ <br> English 102-3 cr <br> First Year Seminar - 4 cr <br> (16 credits) |
|  | Chemistry 251 \& 255-5 cr <br> Math 141-4 cr <br> Intermediate Seminar - 3 cr General Education - 3 cr <br> (15 credits) | Chemistry 252 \& 256-5 cr <br> Physics 113 \& 181-6 cr <br> General Education - 3 cr <br> General Education - 3 cr <br> (17 credits) |
|  | * Chemistry 311 \& 313-6 cr Physics 114 \& 182-6 cr Biochemistry $383-3 \mathrm{cr}$ <br> (15 credits) | * Chemistry 312 \& $314-6$ cr <br> General Education - 3 cr <br> General Education - 3 cr <br> Chemistry Lab Elective - 3 cr <br> (15 credits) |
|  | * Chemistry 369 \& $379-6$ cr <br> * Chemistry 498-2 cr Chemistry Elective - 3 or 4 cr General Education - 3 cr <br> (14-15 credits) | * Chemistry 370 \& 371 - 6 cr <br> * Chemistry 499-2 cr <br> Elective - 3 cr <br> Elective-3 cr <br> (14 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


## 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

Chemistry pass/fail rule: 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

