

Biochemistry, BS (315002BS) Checklist

General Education 2.0 Requirements	
Students must complete Writing, Mathematics, and Speaking requirements during their first year.	
ACADEMIC FOUNDATIONS	
Writing: (6 cr - 2 courses)	
Quantitative Reasoning: (3 cr)	
Speaking: (3 cr)	
DISCIPLINARY AREAS	
Arts/Humanities: (9 cr- 3 courses)	
Social Sciences: (6 cr -2 courses)	
Natural Sciences: (7 cr -2 courses)	
TAGS (one class each)	
Critical Thinking (CT)	
Complex Systems (CS)	
Domestic Diversity (DD)	
Global Diversity (GD)	
College of Arts & Sciences Requirements	
Foreign Language: (14 cr-4 courses)	
101 Beginning I (4 cr)	
102 Beginning II (4cr)	
201 Intermediate I (3-4 cr)	
202 Intermediate II (3-4 cr)	
7700:222 Survey Deaf Culture America (<i>American Sign Language option only</i>)	
300/400 Upper Division Requirement: (40 cr)	

Chemistry Requirements	
If a grade of less than C- in a required chemistry course, then the student must successfully repeat the course within a year.	
Chemistry	
3150:151,3 Principles of Chemistry I, II (6 cr)	
3150:152 Principles of Chemistry Laboratory (1 cr)	
3150:154 Qualitative Analysis (2 cr)	
3150:263,4 Organic Chemistry Lecture I, II (6 cr)	
3150:265,6 Organic Chemistry Laboratory I, II (4 cr)	
3150:305 Physical Chemistry for Biological Sciences (4 cr)	
Or	
3150:313, 314 Physical Chemistry Lecture I, II (6 cr)	
3150:370 Biochemistry Laboratory (2 cr)	
3150:401,2 Biochemistry Lecture I,II (6 cr)	
3150:480 Advanced Chemistry Laboratory III* (2 cr)	
Biology	
3100:111,2 Principles of Biology I,II (8 cr)	
3100:211 General Genetics (3 cr)	
3100:212 General Genetics Laboratory (1 cr)	
3100:311 Cell and Molecular Biology (4 cr)	
3100:480 Molecular Biology (3 cr)	
3100:485 Cell Physiology (3 cr)	
3100:486 Cell Physiology Lab (1cr)	
Physics	
3650:261,262 Physics for Life Science I, II (8 cr) OR	
3650:291, 292 Elementary Classical Physics I,II (8 cr)	
Mathematics	
3450:149 Pre-Calculus Mathematics (4 cr)	
3450:221,2 Analytical Geometry – Calculus I,II (8 cr)	
Electives: At least eight credits from the following	
3100:331 Microbiology (4 cr)	
3100:437 Immunology (4 cr)	
3100:481 Advanced Genetics (3 cr)	
3100:497 Biological Prob (repeatable for up to 4 credits)	
3150:199 Introductory Seminar in Chemistry (1 cr)	
3150:380,1 Advanced Chemistry Laboratory I,II (4 cr)*	
3150:423,4 Analytical Chemistry I,II (6 cr)	
3150:463 Advanced Organic (3 cr)	
3150:472 Advanced Inorganic (3 cr)	
3150:497 Honors Project (repeatable for up to 8 credits)	
3150:499 Research Problems (repeatable for up to 8 credits)	
9871:407 Polymer Science (4 cr)	
3470:401 Probability and Statistics for Engineers (2 cr)	
120 Credit Minimum	

* Biochemistry majors meet the prerequisite requirements for this course

***Students should consult with their BCAS adviser for a semester by semester guide to assist with planning for course enrollment**

