BIOCHEMISTRY
Bachelor of Science
Effective August 2012

Freshman Year
First Semester
1 - BIOCH 103 Careers in Biochemistry and Genetics
5 - BIOL 110 Principles of Biology I
4 - CH 101 General Chemistry
4 - MTHSC 106 Calculus of One Variable I
14

Second Semester
5 - BIOL 111 Principles of Biology II
4 - CH 102 General Chemistry
3 - ENGL 103 Accelerated Composition
4 - MTHSC 108 Calculus of One Variable II
16

Sophomore Year
First Semester
3 - CH 223 Organic Chemistry
1 - CH 227 Organic Chemistry Lab.
3 - GEN 302 Molecular and General Genetics
2 - GEN 303 Molecular and General Genetics Lab.
3 - PHYS 122 Physics with Calculus
1 - PHYS 124 Physics Lab. I
3 - Advanced Mathematics Requirement¹
16-17

Second Semester
3 - BIOCH 301 Molecular Biochemistry
3 - CH 224 Organic Chemistry
1 - CH 228 Organic Chemistry Lab.
3 - COMM 150 Introduction to Human Communication or COMM 250 Public Speaking
3 - PHYS 221 Physics with Calculus II
1 - PHYS 223 Physics Lab. II
3 - Arts and Humanities (Literature) Requirement
17
Junior Year
First Semester
3 - BIOCH 431 Physical Approach to Biochemistry
2 - BIOCH 433 General Biochemistry Lab. I
3 - CH 330 Introduction to Physical Chemistry 2
3 - Science Requirement 3
5 - Elective
16

Second Semester
3 - BIOCH 432 Biochemistry of Metabolism
2 - BIOCH 434 General Biochemistry Lab. II
3 - BIOCH 436 Nucleic Acid and Protein Biosynthesis
3 - PHIL 326 Science and Values
3 - Science Requirement 3
14

Senior Year
First Semester
3 - BIOSC 461 Cell Biology
3 - GEN (BIOCH) 440 Bioinformatics
3 - Social Science Requirement 4
4 - Elective 5
13

Second Semester
2 - BIOCH 493 Senior Seminar
3 - Social Science Requirement 4
3 - Science Requirement 3
6 - Elective 5
14

120-121 Total Semester Hours

1EX ST 301, MTHSC 206, 301, or 302.
2CH 331 may be substituted.
3B IOSC 222, 223, or any courses at 300 level or above in BIOCH, BIO E, BIOSC, CH, EX ST, GEN, MICRO, MTHSC, PHYS, PL PA, and PL PH. Other courses must be approved by advisor.
4See General Education Requirements. Three of these credit hours must also satisfy the Cross-Cultural Awareness Requirement.
5Two semesters of a foreign language are strongly recommended.

Notes:
1. A student is allowed to enroll in science and mathematics course only when all prerequisites have been passed with a grade of C or higher.

2. A minimum grade of C is required in all science and mathematics courses. No student may exceed a maximum of two attempts, excluding a W, to complete successfully any science or mathematics course.