B.A. DEGREE REQUIREMENTS FOR CHEMISTRY
(BIOLOGICAL CHEMISTRY TRACK)

Requirements include 21 credits from chemistry core courses, 6 credits from the list, (2) below, of approved biology/biochemistry core courses, and 9 additional credits from an approved list for a total of 36 required credits. Each student’s course of study must include the following:

1.) Required Chemistry Core Courses
☐ CHE 106: General Chemistry Lecture I (3)
☐ CHE 116: General Chemistry Lecture II (3)
OR
☐ CHE 109: General Chemistry Lecture I (Honors & Majors) (3)
☐ CHE 119: General Chemistry Lecture II (Honors & Majors) (3)

☐ CHE 107: General Chemistry Lab I (1)
☐ CHE 117: General Chemistry Lab II (1)
OR
☐ CHE 129: General Chemistry Lab I (Honors & Majors) (1)
☐ CHE 139: General Chemistry Lab II (Honors & Majors) (1)

☐ CHE 275: Organic Chemistry Lecture I (3)
☐ CHE 276: Organic Chemistry Laboratory I (2)
☐ CHE 325: Organic Chemistry Lecture II (3)
☐ CHE 326: Organic Chemistry Laboratory II (2)
☐ CHE 474: Structural and Physical Biochemistry I (3)

2.) Required Biology/Biochemistry Core Courses
☐ BIO 475: Biochemistry Laboratory (4)
OR
☐ CHE/BCM 477: Preparation and Analysis of Proteins and Nucleic Acid (3)
AND
☐ BIO 575: Biochemistry I (3)

3.) At least 9 credits chosen from:
☐ CHE 335: Chemical and Biochemical Analysis with Laboratory (4)
☐ CHE 411: Inorganic Chemistry (3)
☐ CHE 412: Metals in Medicine (3)
☐ CHE 422: Inorganic Laboratory Techniques (1)
☐ CHE 427: Intermediate Organic Chemistry (3)
☐ CHE 436: Advanced Physical Chemistry (3)
☐ CHE 467: Introduction to Physical Chemistry Research Laboratory (3)
☐ CHE 546: Molecular Spectroscopy and Structure (1-9)
☐ CHE 575: Organic Spectroscopy (3)
☐ CHE/FSC 444: Forensic Chemical Analysis (4)
or selected graduate courses with the instructor’s approval
☐ ______________________________________
☐ ______________________________________

4.) Required Calculus (one year) and Physics Courses
☐ MAT 285: Life Sciences Calculus I (3)
☐ MAT 286: Life Sciences Calculus II (3)
OR
☐ MAT 295: Calculus I (4)
☐ MAT 296: Calculus II (2-4)
☐ PHY 211: General Physics Lecture I (3)
☐ PHY 212: General Physics Lecture II (3)
☐ PHY 221: General Physics Laboratory I (1)
☐ PHY 222: General Physics Laboratory II (1)

Students are strongly encouraged to take BIO 326 and BIO 327 Genetics and Cell Biology. Students are also encouraged to take BIO 465 Molecular Biology Laboratory.

Students may also gain some research experience by enrolling in CHE 450, which may be substituted for a 3-credit course listed in (3) above, by petitioning the department.

Students who receive a score of 5 on the AP chemistry exam will receive credit for CHE 106/116 and CHE 107/117 (8 credits)*
*Pre-medical students should consult with Health Professions Advising before accepting AP chemistry credit.

Last updated: August 3, 2012