

Curriculum for B.S. in Chemistry Biochemistry Option

Freshman Year First Semester

CHE 105 General College Chemistry I (4)
CHE 111 Laboratory to Accompany General Chemistry I (1)
MA 113 Calculus I (4)
CIS/WRD 110 Composition and Communication I (3)
UK Core (3)

Freshman Year Second Semester

CHE 107 General College Chemistry II (3)
CHE 113 Laboratory to Accompany General Chemistry II (2)
MA 114 Calculus II (4)
BIO 150 Principles of Biology I (3)
BIO 151 Principles of Biology Laboratory I (2)
CIS/WRD 111 Composition and Communication II (3)

Sophomore Year First Semester

CHE 230 Organic Chemistry I (3)
BIO 152 Principles of Biology II (3)
BIO 153 Principles of Biology Laboratory II (2)
MA 213 Calculus III (4)
PHY 231 General University Physics (4)
PHY 241 General University Physics Laboratory (1)

Sophomore Second Semester

CHE 231 Organic Chemistry Laboratory I (1)
CHE 232 Organic Chemistry II (3)
CHE 226 Analytical Chemistry (3)
PHY 232 General University Physics (4)
PHY 242 General University Physics Laboratory (1)
UK Core (3)

Junior Year First Semester Hours

CHE 440 Introductory Physical Chemistry (4) **
CHE 522 Instrumental Analysis (4) or CHE 532 Spectrometric Identification of Organic Molecules (2)
CHE 550 Biological Chemistry I (3)
A&S Humanities/Social Science (3)
UK Core (3)

Junior Year Second Semester

CHE 410 Inorganic Chemistry (2)
CHE 533 Qualitative Organic Analysis Laboratory (if CHE 532 taken) (2)
CHE 552 Biological Chemistry II (3)
CHE 554 Biological Chemistry Laboratory (2)
BIO 304 Principles of Genetics or BIO 308 General Microbiology or BIO 315 Introduction to Cell Biology (3-4)
Foreign Language*** (4)

Senior Year First Semester

CHE 412 Inorganic Chemistry Laboratory (2)
Major Field Option (2)
CHE 372 Communication in Chemistry I (1)

A&S Humanities/Social Science (3)

UK Core (3)

Foreign Language*** (4)

Senior Year Second Semester

CHE 441 Physical Chemistry Laboratory (2)

Major Field Option (2)

CHE 472 Communication in Chemistry II (1)

Foreign Language*** (3)

UK Core (3)

Elective (3)

*Course used towards completion of a UK Core Requirement.

**CHE 442G may be substituted for CHE 440G.

***Any language may be used to satisfy the College Foreign Language requirements – German is recommended.