## (updated 02/24/2025)

Biochemistry is an interdisciplinary major that is administered jointly by the Biology and Chemistry Departments. Students interested in the biochemistry major may consult Prof. Eric Folker (578 Higgins).

Molecules & Cells (fall/spring)

Ecology & Evolution (fall/spring) <u>OR</u> Human Physiology (spring only) Comparative Vertebrate Physiology (fall/spring)

<u>OR</u> Human Physiology (spring only)

Investigations in Molecular Cell Biology (fall/spring)

One course in from the following list

BIOL 3040 Cell Biology (fall/spring) BIOL 4140 Microbiology (spring only)

One course in from the following list

BIOL 3050 Genetics

BIOL 3060 Foundations in Genetics (summer only) BIOL 3150 Introduction to Genomics (fall only)

CHEM1109/1111 General Chemistry I with Lab (or CHEM1117/1119) (fall only)

CHEM2231/2233 Organic Chemistry I with Lab (or CHEM2241) (fall only)

CHEM1110/1112 General Chemistry II with Lab (or CHEM1118/1120) (spring only)

CHEM2232/2234 Organic Chemistry II with Lab (or CHEM2242) (spring only)

## (2 courses, minimum of 5 credits total)

Students planning to pursue a science career are urged to become involved in Undergraduate Research or take an Advanced Laboratory course.

Fal	I 20	25

Lecture/Seminar Options:

Virology (BIOL 4090)

Inflammation and Disease (BIOL 4120)

Introduction to Bioinformatics (BIOL 4200)

Cellular Biochemistry (BIOL 4580)

Nobel Winning Res in Medicine or Physio (BIOL 5010)

(

Topics in Developmental Biology (BIOL 5040) (2 cr)

Glycobiology and Human Disease (BIOL 5200)

Molecular Basis of Infectious Disease (BIOL 5210)

Cancer as a Metabolic Disease (BIOL 5420)

Biology of the Nucleus (BIOL 5700)

NMR Spectroscopy (CHEM 5539)

Chemical Genomics and Proteomics (CHEM 5541)

Principles of Chemical Biology (CHEM 5560)

Advanced Labs Options:

Research in Evolutionary Genomics (BIOL 4802)

Research in Molecular Biology Lab (BIOL 4830)

Two semesters of Undergraduate Research

Spring 2026

Lecture/Seminar Options:

Developmental Biology (BIOL 3320)

Metabolic Regulation and Human Disease (BIOL 4290)

Cancer Biology (BIOL 4510)

Principles of Immunology (BIOL 4570)

Nobel Winning Res in Medicine or Physio (BIOL 5010)

(2 cr)

Recombinant DNA Technology (BIOL 5060)

Microbial Community Ecology (BIOL 5071) (2 cr)

Microbiomes/Human Disease (BIOL 5100)

Seminar in Cellular Dynamics (BIOL 5180)

Immunity and Infectious Disease (BIOL 5230)

Cancer as a Metabolic Disease (BIOL 5420)

Topics in Microbial Pathogenesis (BIOL 5460)

Synthetic Biology: at the interface of Biology,

Chemistry, and Engineering (CHEM 5513)

Magnetic Resonance in Biology (CHEM 5540)

Advanced Labs Options:

Research in Molecular Biology Lab (BIOL 4830)

Two semesters of Undergraduate Research