Biochemistry

COLLEGE *of* LIFE SCIENCES

Jefferson
Thomas Jefferson University

Jefferson is known for crossing disciplines to reimagine the way students learn with an approach that is collaborative and active; global; integrated with industry; focused on research across disciplines to foster innovation and discovery; and technology-enhanced. As a national doctoral research university, Jefferson delivers high-impact professional education in 160 undergraduate and graduate programs to 7,800 students in architecture, business, design, engineering, fashion and textiles, health, social science and science.

The Jefferson College of Life Sciences provides undergraduate, graduate and postdoctoral education and research training in the life sciences to prepare you to make significant contributions in life science through careers in academia, industry and government. Our students have gone on to continue with additional graduate and professional education and training programs or directly into successful careers at colleges and universities, pharmaceutical and biotechnology companies, healthcare settings, government agencies and many other professional venues.

CAREER *and* INTERNSHIP HIGHLIGHTS

Biomedical sciences are essential for research, development and production within the chemical, biochemical and pharmaceutical industries. Our students have gone on to competitive graduate programs and work in biochemical research and development. Consider where you could be in only four short years:

- Continue your education in top chemical, biochemical or medical graduate programs.
- Work in a pharmaceutical laboratory creating the next generation of drugs and drug delivery methods.
- Pursue a career teaching secondary education.

PROGRAM HIGHLIGHTS

Our biochemistry program is known for educating inquisitive, creative, talented and innovative professionals:

- Learn from expert faculty conducting high-caliber research.
- Collaborate with off-campus colleagues on research projects.
- Score a great internship at nationally ranked research institutions.
- Present a year-long research project before the scientific community at a local or national conference.
- Gain a firm understanding of chemical concepts through laboratory-based courses.
- Get hands-on experience by conducting unique experiments developed by our expert faculty.
- Use state-of-the-art facilities to acquire experience in biochemistry lab techniques.

Jefferson.edu/BSBiochemistry

Curriculum

YEAR 1

Pathways Seminar
Writing Seminar I:
Written Communication
Debating U.S. Issues
Chemistry I Lecture
Chemistry I Lab
Biology I Lecture
Biology I Lab

Calculus I
Physical Education *or* Service Learning
Calculus II
Chemistry II Lecture
Chemistry II Lab
Biology II Lecture
Biology II Lab

YEAR 2

Ethics
Writing Seminar II:
Multimedia Communication
Global Diversity
Calculus III
Biostatistics
Physics I Lecture

Physics I Lab
Physics II Lecture
Physics II Lab
Organic Chemistry I
Organic Chemistry I Lab
Organic Chemistry II
Organic Chemistry II Lab

YEAR 3

American Diversity
Global Citizenship
Debating Global Issues
Integrative Seminar
Biochemistry I
Biochemistry I Lab

Biochemistry II
Biochemistry II Lab
Physical Chemistry I
Physical Chemistry II
Instrumental Methods Analysis

YEAR 4

Capstone Folio Workshop
Inorganic Chemistry

Advanced Chemistry/ Biology Electives
(9-10 credits)
Free Electives *(12 credits)*

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