



BIOCHEMISTRY AND MOLECULAR BIOLOGY

BACHELOR OF SCIENCE (B.S.)

Are you curious about genetics, disease, medicine, and how the human body works down to a single molecule in a human cell? Explore all the answers in biochemistry and molecular biology.

Biochemistry and molecular biology (BMB) is an interdisciplinary field of study that combines the knowledge of chemistry with application to living systems. If you enjoy asking questions about how living systems work on a molecular level, or if you are interested in applying chemistry knowledge to solving problems in living systems, then you should consider this program.

OPPORTUNITIES AT KING'S COLLEGE

The program combines and integrates concepts in biology and chemistry, with the course requirements taught between the two departments- the Department of Biology and the Department of Chemistry & Physics. Here's what else makes our program unique:

ACS certification: our chemistry program is certified by the American Chemical Society – a recognition reserved for programs that adhere to rigorous standards of excellence.

Dynamic learning approach: we believe in learning that transcends textbooks. Our chemistry program immerses you in an engaging and interactive educational experience through hands-on laboratory sessions and close interactions with accomplished faculty.

Undergraduate research: gain independence and confidence in the laboratory with ownership of individual research projects. This offers the opportunity for students to gain field experience right on campus.

Strong faculty-student interaction: our deliberately small class sizes ensure each student receives personal attention in the classroom, the lab, and beyond from faculty across multiple departments.



JUSTIN LANSBERRY '21
Research Associate II

"The Biochemistry and Molecular Biology program is the blueprint when it comes to ensuring any scientist is capable and engaged in their research. The knowledge I have acquired from the BMB program is quintessential to my role as a scientist; I conduct my work with drive, purpose, and integrity."



**KING'S
COLLEGE**
TRANSFORMATION. COMMUNITY. HOLY CROSS.

CAREER OPPORTUNITIES

The Biochemistry and Molecular Biology (BMB) major is designed to provide a cross-disciplinary experience to prepare well-rounded scientists who are competitive for professions in health, industry, academia, and government. Students can also go on to have successful careers as:

- biochemists
- biomedical scientists
- chemical engineers
- clinical research consultants
- data analysts
- medical professionals
- pharmacists

DEGREE REQUIREMENTS

Below is a sample of courses offered in this program. For a complete list of programs and courses, see our Degree Requirements online.

BMB 110L	Introduction to Biochemical Techniques
BMB 353L	Advanced Biochemical Techniques
BMB 455	Senior Seminar
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BIOL 113/L	Evolution and Diversity with Lab
BIOL 213/L	Cell and Molecular Biology with Lab
BIOL 370	Junior Seminar
CHEM 353	Biochemistry
BIOL 450	Molecular Genetics
CHEM 113/L	General Chemistry I
CHEM 114/L	General Chemistry II
CHEM 241/L	Organic Chemistry I
CHEM 242/L	Organic Chemistry II
CHEM 243/L	Analytical Chemistry
CHEM 244/L	Instrumental Analysis
MATH 129	Analytic Geometry and Calculus I
MATH 130	Analytic Geometry and Calculus II
PHYS 113/L	Physics for Scientists and Engineers I
PHYS 114/L	General Physics II with Lab
BIOL 314	Microbiology
BIOL 323	Genetics
BIOL 326	Immunology
BIOL 330	Introduction to Bioinformatics
BIOL 336	Cell Biology
BIOL 456	Molecular Neuroscience
BIOL 490	Senior Research
CHEM 357	Physical Chemistry I
CHEM 471	Advanced Inorganic Chemistry
CHEM 480	Bioinorganic Chemistry
CHEM 473	Organic Chem Drug Design/Action
CHEM 475	Advanced Analytical Chemistry
CHEM 496	Senior Research



\$103,650

MEDIAN ANNUAL SALARY FOR
BIOCHEMISTS & BIOPHYSICISTS

+9%

OVERALL EMPLOYMENT GROWTH
FROM 2023-33

*Statistics provided by U.S. Bureau of
Labor Statistics*

CONTACT US

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