



BIOCHEMISTRY

Students majoring in Biochemistry take a selection of chemistry and biology courses that apply the fundamentals of chemistry to living systems. Biochemistry is a great choice if you are planning a career in the biochemical or pharmaceutical industry, or planning to pursue graduate studies in health care.

HANDS-ON EXPERIENCE

Under the guidance of faculty, Biochemistry students participate in chemistry research. Students have the opportunity to present their work at regional professional meetings. Cooperative education provides real-world experience in industrial settings or research labs in Greater Cincinnati and has often led to full-time positions.



FURTHER YOUR EDUCATION

Students graduating with a Biochemistry degree may choose to pursue graduate degrees in biochemistry or in health care fields such as medicine, pharmacy, physical therapy, or physician assistant studies. Students may also enter the workforce as a researcher in a biomedical lab. Biochemistry majors work with their academic advisor to identify a career path that aligns with their goals.

CAREERS IN BIOCHEMISTRY

DOCTOR

LAB
TECHNICIAN

PHARMACIST

PHYSICIAN
ASSISTANT

RESEARCH
SCIENTIST

TEACHER



SCAN TO FIND:

- Featured courses
- Program requirements and more!

\$5,000

SCHMIDLAPP SCHOLARSHIP

Open to incoming freshmen majoring in biology, chemistry, computer science, or math. Based on academic talent and location. The deadline to apply is January 31. Download an application at msj.edu/aid-forms.

98.9%

CAREER OUTCOMES RATE

98.9 percent of School of Art & Sciences graduates were successfully employed, enrolled in graduate studies, or volunteering within six months of graduation.



MOUNT ST. JOSEPH UNIVERSITY®

SCHOOL OF ARTS & SCIENCES

Office of Admission
513-244-4531 | 800-654-9314
msj.edu | admission@msj.edu

Eric Johnson, Ph.D.
Professor and Chair
Department of Biomedical and Natural Sciences
eric.johnson@msj.edu

BIOCHEMISTRY MAJOR - BACHELOR OF SCIENCE

FIRST YEAR-SEMESTER #1	FIRST YEAR- SEMESTER #2	UNIVERSITY CORE
BIO 111 Principles of Biology I 4	CHE 112 General Chemistry II 3	COMMON GOOD
BIO 111A Prin. of Biology I Lab 0	CHE 112A Gen. Chem II Lab 1	CORE 115 Common Ground Code COR
BIO 111R Prin. of Bio I Recitation 0	CHE 112R Gen. Chem. II Rec 0	Justice & the Common Good Code JCG
CHE 111 General Chemistry I 3	COM 100/ ENG 101 3	Ethics Code CE
CHE 111A Gen. Chem. I Lab 1	SOC 103 Our Social World 3	Experiential Learning Code EXP
CHE 111R Gen. Chem. I Rec 0	BNS 100 Introductory Seminar 1	Core Capstone Code CCP
COM 100/ENG 101 3	Core requirement 3	HUMANITIES
CORE 115 Common Ground 3		Speech (COM 100) Code C
FYE First-Year Experience 1		Writing (ENG 101) Code C
SECOND YEAR-SEMESTER #1	SECOND YEAR-SEMESTER #2	Literature (ENG) Code CL
CHE 211 Organic Chemistry I 3	CHE 212 Organic Chemistry II 3	Art or Music Code CAM
CHE 211A Organic Chem I Lab 1	CHE 212A Organic Chem II Lab 1	History Code CH
PHY 201 General Physics I 3	BNS 200 Intermediate Seminar 1	Religious Studies Code CR
PHY 201A Gen. Physics I Lab 1	PHY 202 General Physics II 3	Philosophy Code CP
CED 220 Found of Professionalism 1	PHY 202A Gen. Physics II Lab 1	SCIENCES
MTH 193 Calculus I 4	MTH 194 Calculus II 4	Biology/Chemistry/Physics + Lab Code CN
Core requirement 3	Core requirement 3	Mathematics Code CMA
THIRD YEAR-SEMESTER #1	THIRD YEAR-SEMESTER #2	SOC 103 Our Social World Code CS
CHE 350 Physical Chemistry I 3	CHE 326 Biochemistry II 3	Choose one discipline:
CHE 350A Phys. Chem I Lab 1	CHE 326A Biochemistry II Lab 1	ECO 212 Microeconomics Code CEP
CHE 325 Biochemistry I 3	CHE 355# or Major Elective 3	PSY 103 Psychology Code CEP
CHE 325A Biochemistry I Lab 1	CHE 355A# or Major Elective Lab 1	
Biology Cognate + Lab 4	BIO 305/305A or 310/310A 4	NOTES
Core requirement 3	or 320/320A 4	Prerequisites:
FOURTH YEAR-SEMESTER #1	FOURTH YEAR-SEMESTER #2	Chemistry- College preparatory high school chemistry or the successful completion of a placement test.
CHE 314 Inter. Analytical Chem 3	CHE 315# or 360 or elective 3	Math- Three years of college preparatory high school mathematics including functions.
CHE 314A Inter. Analytical Chem Lab 1	CHE 315A# or 360A or elective 1	
CHE 390 Research Probs in Chem 1	BNS 300 Advanced Seminar 1	120 credit hours minimum needed to graduate
Core requirement 3	BIO 305/305A or 310/310A 4	
Core Capstone 3	or 320/320A 4	*Students must have an appropriate math placement before enrolling in MTH 193 and CHE 111.
Elective 3	Elective 3	**Curriculum Guide does not replace advising by a faculty member within the Chemistry program**
	Elective 3	
#Students take CHE 315/315A Instrumental Analysis with lab or CHE 355/355A Physical Chem. II with lab or CHE 360/360A Int. Inorganic Chem. with lab Students choose two from BIO 305 Microbiology; BIO 320 Genetics; BIO 310/310A Cell Biology with lab		

Approved by EJ on 06.12.2026



**MOUNT ST. JOSEPH
UNIVERSITY®**

5701 Delhi Road
Cincinnati, Ohio 45233-1670
513-244-4200
www.msj.edu

Mount St. Joseph University ("the University") is committed to providing an educational and employment environment free from discrimination or harassment on the basis of race, color, national origin, religion, sex, age, disability, sexual orientation, gender identity, veteran status or other minority or protected status. This commitment extends to the University's administration of its admission, financial aid, employment, and academic policies, as well as the University's athletic programs and other University-administered programs, services, and activities.

The University has designated the Vice President of Compliance Risk and Legal Affairs/General Counsel/Title IX Coordinator, (513) 244-4393, as the individual responsible for responding to inquiries, addressing complaints, and coordinating compliance with its responsibilities under Title IX of the Education Amendments of 1972 and other related federal and state civil rights laws. The University has designated the Chief Human Resources Officer, (513) 244-4979, as the individual responsible for responding to inquiries, issues, or complaints relating to discriminatory, harassing, or retaliatory conduct related to race, color, national origin, religion, age, disability, veteran status or any other legally protected status. The University has designated the Associate Provost for Academic Affairs, (513) 244-4614, as the individual responsible for responding for addressing formal complaints regarding compliance with its responsibilities under Section 504 of the Rehabilitation Act of 1973. 09-WO-003075