



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.



SCAN TO FIND:

- Featured courses.
- Program requirements and more!

BEYOND THE CLASSROOM

HANDS-ON EXPERIENCE

Under the guidance of faculty, Biochemistry students participate in chemistry research. Many research students are co-authors on published chemistry research papers while others present their work at regional professional meetings. Cooperative education provides real-world experience in industrial settings or research labs in Greater Cincinnati and have 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. Students interested in preparing for a career in health care at the graduate level are encouraged to contact the Health Professions Advising Committee (hpac@msj.edu).

CAREERS IN BIOCHEMISTRY

DOCTOR

FORENSIC
SCIENTIST

LAB TECHNICIAN

PHARMACIST

PHYSICIAN
ASSISTANT

RESEARCH
SCIENTIST

AFFORDABLE EDUCATION

PRESIDENT'S SCHOLARSHIP
FULL TUITION & FEES

DEAN'S SCHOLARSHIP
up to \$24,000/year

MERIT SCHOLARSHIPS
up to \$22,000/year

President's and Dean's scholarships are competitively awarded to high school seniors (class of 2023). To be eligible for consideration, you must apply by December 1, 2022. Merit scholarships are awarded based on high school GPA. For more information visit www.msj.edu/scholarships.

ALUMNI SUCCESS

100%
CAREER OUTCOMES RATE

100% of 2021 School of Behavioral & Natural Sciences graduates were successfully employed, enrolled in graduate studies, or volunteering within six months of graduation. The knowledge rate for this survey was 85%.



MOUNT ST. JOSEPH UNIVERSITY®
SCHOOL OF BEHAVIORAL & NATURAL SCIENCES

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

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Associate Professor of Chemistry
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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
CHE 111 General Chemistry I	3	MTH 194 Calculus II	4	Justice & the Common Good	Code JCG
CHE 111A Gen. Chem. I Lab	1	COM 100/ ENG 101	3	Ethics	Code CE
MTH 193 Calculus I	4	SOC 103	3	Experiential Learning	Code EXP
CORE 115	3	Core requirement	3	Core Capstone	Code CCP
SECOND YEAR-SEMESTER #1		SECOND YEAR-SEMESTER #2		HUMANITIES	
CHE 211 Organic Chemistry I	3	CHE 212 Organic Chemistry II	3	Speech (COM 100)	Code C
CHE 211A Org. Chem I Lab	1	CHE 212A Org. Chem II Lab	1	Writing (ENG 101)	Code C
PHY 201 General Physics I	3	CHE 200 Chem. Soph. Seminar	1	Literature (ENG)	Code CL
PHY 201A Gen. Physics I Lab	1	PHY 202 General Physics II	3	Art or Music	Code CAM
CED 220 Foundations of Professionalism	1	PHY 202A Gen. Physics II Lab	1	History	Code CH
COM 100/ENG 101	3	Core requirement	3	Religious Studies	Code CR
Core requirement	3	Core requirement	3	Philosophy	Code CP
THIRD YEAR-SEMESTER #1		THIRD YEAR-SEMESTER #2		SCIENCES	
CHE 350 Physical Chemistry I	3	CHE 326 Biochemistry II	3	Biology/Chemistry/Physics + Lab	Code CN
CHE 350A Phys. Chem I Lab	1	CHE 326A Biochem. II Lab	1	Mathematics	Code CMA
CHE 325 Biochemistry I	3	CHE 355 [#] or elective	3	SOC 103 Our Social World	Code CS
CHE 325A Biochem. I Lab	1	CHE 355A [#]	1	Choose one discipline:	
Core requirement	3	CHE 300 Chem. Junior Seminar	1	ECO 212 Microeconomics	Code CEP
Core requirement	3	BIO 305/320/310/310A	4	PSY 103 Psychology	Code CEP
Core requirement	3	Core requirement	3	NOTES	
FOURTH YEAR-SEMESTER #1		FOURTH YEAR-SEMESTER #2		Prerequisites:	
CHE 314 Inter. Analytical Chem	3	CHE 315 [#] or elective	3	Chemistry- College preparatory high school chemistry or the successful completion of a placement test.	
CHE 314A Inter. Analytical Chem Lab	1	CHE 315A [#]	1	Math- Three years of college preparatory high school mathematics including functions.	
Core requirement	3	CHE 400 Chem. Seminar & Capstone	1	120 credits hours minimum needed to graduate.	
Core Capstone	3	BIO 305/320/310/310A	4	*Students must have an appropriate math placement before enrolling in MTH 193 and CHE 111.	
Elective	3	Electives to reach 120 credits		**Curriculum Guide does not replace advising by a faculty member within the Chemistry program.**	
		#Students take CHE 315/315A Instrumental Analysis with lab or CHE 355/355A Physical Chem. II with lab			
		Students choose two from BIO 305 Microbiology; BIO 320 Genetics; BIO 310/310A Cell Biology with lab			

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**MOUNT ST. JOSEPH
UNIVERSITY®**

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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, 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 Title IX Coordinator, (513) 244-4467, 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 Director of Human Resources/Equal Opportunity 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, 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-001842/21/600