



# CHEMISTRY

Chemistry majors develop skills in critical thinking, laboratory techniques, and the clear expression of ideas. Chemistry is a great choice if you are planning a career in the chemical industry or if you intend to pursue graduate studies in business, education, or the health sciences.



### SCAN TO FIND:

- Featured courses.
- Program requirements and more!

## BEYOND THE CLASSROOM

### HANDS-ON EXPERIENCE

Under the guidance of faculty, Chemistry students participate in 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, often leading to full-time positions for our students.



### FURTHER YOUR EDUCATION

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](mailto:hpac@msj.edu)).

## AFFORDABLE EDUCATION

# \$5,000

### SCHMIDLAPP SCHOLARSHIP

Open to women 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 [www.msj.edu/aid-forms](http://www.msj.edu/aid-forms).

## CAREERS IN CHEMISTRY

DOCTOR

FORENSIC  
SCIENTIST

LAB TECHNICIAN

PHARMACIST

PHYSICIAN  
ASSISTANT

RESEARCH  
SCIENTIST

## ALUMNI SUCCESS

# 100%

### CAREER OUTCOMES RATE

100% of 2022 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 74%.



# MOUNT ST. JOSEPH UNIVERSITY®

## SCHOOL OF BEHAVIORAL & NATURAL SCIENCES

Office of Admission  
513-244-4531 | 800-654-9314  
[www.msj.edu](http://www.msj.edu) | [admission@msj.edu](mailto:admission@msj.edu)

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# CHEMISTRY 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
		HUMANITIES
SECOND YEAR-SEMESTER #1	SECOND YEAR-SEMESTER #2	
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
		SCIENCES
		Biology/Chemistry/Physics + Lab Code CN
		Mathematics Code CMA
		SOC 103 Our Social World Code CS
		Choose one discipline:
		ECO 212 Microeconomics Code CEP
		PSY 103 Psychology Code CEP
		NOTES
		Prerequisites:
		Chemistry- College preparatory high school chemistry or the successful completion of a placement test.
		Math- Three years of college preparatory high school mathematics including functions.
		120 credits hours minimum needed to graduate.
		*Students must have an appropriate math placement before enrolling in MTH 193 and CHE 111.
		**Curriculum Guide does not replace advising by a faculty member within the Chemistry program.**
THIRD YEAR-SEMESTER #1	THIRD YEAR-SEMESTER #2	
CHE 314 Inter. Analytical Chem 3	CHE 315 Instrumental Analysis 3	
CHE 314A Inter. Analytical Chem Lab 1	CHE 315A Instrum. Analysis Lab 1	
CHE 325 Biochemistry I 3	CHE 360 Intermed. Inorg. Chem 3	
CHE 325A Biochem. I Lab 1	CHE 360A Int Inorganic Lab 1	
Core requirement 3	CHE 300 Chem. Junior Seminar 1	
Core requirement 3	Core requirement 3	
Elective 3	Core requirement 3	
FOURTH YEAR-SEMESTER #1	FOURTH YEAR-SEMESTER #2	
CHE 350 Physical Chemistry I 3	CHE 355 Physical Chem. II 3	
CHE 350A Phys. Chem I Lab 1	CHE 355A Phys. Chem II Lab 1	
Major Expanded Knowledge 4	CHE 400 Chem. Seminar & Capstone 1	
Elective 3	Core Capstone 3	
Elective 3	Elective 3	
Elective 3	Elective 3	

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**MOUNT ST. JOSEPH UNIVERSITY®**

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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-002425/23/550