

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.

\$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.

100%

CAREER OUTCOMES RATE

100% of Biomedical & Natural Sciences graduates were successfully employed, enrolled in graduate studies, or volunteering within six months of graduation. The knowledge rate for this survey was 80%.

HANDS-ON EXPERIENCE

HANDS-ON EXPERIENCE

Under the guidance of faculty,
Chemistry students
participate in
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,
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 work with their academic advisor to identify a career path that aligns with their goals.





SCAN TO FIND:

- Featured courses
- Program requirements and more!



MOUNT ST. JOSEPH UNIVERSITY®

SCHOOL OF ARTS & SCIENCES

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Department of Biomedical and Natural Sciences
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CHEMISTRY MAJOR, BUSINESS CONCENTRATION - BACHELOR OF SCIENCE

FIRST YEAR-SEMESTER	<u>#1</u>	FIRST YEAR- SEMESTER	<u>#2</u>	UNIVERSITY CORE		
BIO 111 Principles of Biology I 4		CHE 112 General Chemistry II 3		COMMON GOOD		
BIO 111A Prin. of Biology I Lat	0	CHE 112A Gen. Chem II Lab	1	CORE 115 Common Ground	Code COR	
BIO 111R Prin. of Bio I Recitati	on 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	Core requirement	3	Core Capstone	Code CCP	
MTH 174 Statistics	3	ECO 211 Macro- or ECO 212 Mic	го-	HUMANITIES		
CORE 115 Common Ground	3	Economics	3	Speech (COM 100)	Code C	
COM 100/ENG 101	3			Writing (ENG 101)	Code C	
SECOND YEAR-SEMESTE	R #1	SECOND YEAR-SEMESTER	R #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	CHE 200 Chem. Soph. Seminar	1	Religious Studies	Code CR	
PHY 201A Gen. Physics I Lab	1	PHY 202 General Physics II	3	Philosophy	Code CP	
ACC 213 Principles of Accounti	ng-	PHY 202A Gen. Physics II Lab	1	SCIENCES		
Financial	3	MGL 300 Management/Organizat	ional	Biology/Chemistry/Physics + Lab Code CN		
CED 220 Foundations of		Behavior	3	Mathematics	Code CMA	
Professionalism	1	Core requirement	3	SOC 103 Our Social World	Code CS	
Core requirement	3					
				Choose one discipli	ne:	
THIRD YEAR-SEMESTER	. #1	THIRD YEAR-SEMESTER	#2	ECO 212 Microeconomics	Code CEP	
CHE 314 Inter. Analytical Chem	1 3	CHE 315 Instrumental Analysis	3	PSY 103 Psychology	Code CEP	
CHE 314A Inter. Analytical		CHE 315A Instrum. Analysis Lab	1			
Chem Lab	1	CHE 300 Chem. Junior Seminar	1	<u>NOTES</u>		
CHE 325 Biochemistry I	3	MKT 300 Principles of Marketing	3	Prerequisites:		
CHE 325A Biochem. I Lab	1	Core requirement	3	Chemistry- College preparatory	which school	
FIN 300 Corporate Finance	3	Choose one Major Elective:		chemistry or the successful con		
Core requirement	3	CHE 326 Biochemistry II with La	b 3	placement test.	apiction of a	
Core requirement	3	CHE 326A Biochemistry II Lab	1	Math- Three years of college p	reparatory	
		CHE 360 Intermed. Inorg. Chem	3	high school mathematics include		
		CHE 360A Inter. Inorg. Chem Lab	1	functions.	illig	
				Tunctions.		
FOURTH YEAR-SEMESTE	R #1	FOURTH YEAR-SEMESTER	R #2	120 credit hours minimum need	ded to	
Core requirement	3	CHE 400 Chem. Seminar &		graduate		
Core requirement	3	Capstone	1	Simulation		
Core requirement	3	Core Capstone	3	*Students must have an approp	riate math	
Elective	3	Elective	3	placement before enrolling in M		
		Elective	3	CHE 111.	iso und	
		Elective	3			
The Business Concentration pr the foundations of business, industries (eg. chemical, phar	**Curriculum Guide does not r advising by a faculty member v Chemistry program**					

concentration also provides students with an opportunity to apply to MBA programs.

CHEMISTRY MAJOR, RESEARCH & INDUSTRY - BACHELOR OF SCIENCE

FIRST YEAR-SEMESTER #1		FIRST YEAR- SEMESTER	#2	UNIVERS
	1	CHE 112 General Chemistry II	3	COMMO
85)	CHE 112A Gen. Chem II Lab	1	CORE 115 Common
BIO 111R Prin. of Bio I Recitation ()	CHE 112R Gen. Chem. I Rec	0	Justice & the Commo
CHE 111 General Chemistry I	3	MTH 194 Calculus II	4	Ethics
CHE 111A Gen. Chem. I Lab	l	COM 100/ ENG 101	3	Experiential Learning
CHE 111R Gen. Chem. I Rec)	SOC 103 Our Social World	3	Core Capstone
MTH 193 Calculus I	1	Core requirement	3	HUMA
CORE 115 Common Ground	3			Speech (COM 100)
				Writing (ENG 101)
SECOND YEAR-SEMESTER #1	_	SECOND YEAR-SEMESTEI	R #2	Literature (ENG)
CHE 211 Organic Chemistry I	3	CHE 212 Organic Chemistry II	3	Art or Music
CHE 211A Organic Chem I Lab	l	CHE 212A Organic Chem II Lab	1	History
PHY 201 General Physics I	3	CHE 200 Chem. Soph. Seminar	1	Religious Studies
PHY 201A Gen. Physics I Lab	1	PHY 202 General Physics II	3	Philosophy
CED 220 Foundations of		PHY 202A Gen. Physics II Lab	1	SCIE
Professionalism	1	Core requirement	3	Biology/Chemistry/Ph
COM 100/ENG 101	3	Core requirement	3	Mathematics
Core requirement	3			SOC 103 Our Social V
THIRD YEAR-SEMESTER #1		THIRD YEAR-SEMESTER	#2	
CHE 314 Inter. Analytical Chem	3	CHE 315 Instrumental Analysis	3	Choose on
CHE 314A Inter. Analytical		CHE 315A Instrum. Analysis Lab	1	ECO 212 Microecono
Chem Lab	1	CHE 360 Intermed. Inorg. Chem	3	PSY 103 Psychology
CHE 325 Biochemistry I	3	CHE 360A Int Inorganic Lab	1	, ,
CHE 325A Biochem. I Lab	1	CHE 300 Chem. Junior Seminar	1	<u>NC</u>
Core requirement	3	Core requirement	3	Prerequisites:
Core requirement	3	Core requirement	3	Chemistry- College pr
Core requirement	3			chemistry or the succe
				placement test.
FOURTH YEAR-SEMESTER #1	_	FOURTH YEAR-SEMESTER #2		Math- Three years of
CHE 350 Physical Chemistry I	3	CHE 355 Physical Chem. II	3	high school mathemat
CHE 350A Phys. Chem I Lab	1	CHE 355A Phys. Chem II Lab	1	functions.
CHE 390 Research Problems in		CHE 400 Chem. Seminar &		Tunctions.
Chemistry 1		Capstone	Capstone 1	
Elective	3	Core Capstone	3	120 credit hours miningraduate
Elective	3	Elective	3	graduate
Elective	3	Elective	3	*Students must have a
	placement before enro			
The Research and Industry Con-	CHE 111.			
many different laboratory setting				
labs) This concentration is also	_			l

labs). This concentration is also excellent preparation for PhD programs in multiple fields (eg. chemistry, biochemistry, chemical engineering, and biomedical engineering).

UNIVERSITY CORE							
COMMON GOOD							
CORE 115 Common Ground	Code COR						
Justice & the Common Good	Code JCG						
Ethics	Code CE						
Experiential Learning	Code EXP						
Core Capstone	Code CCP						
HUMANITIES							
Speech (COM 100)	Code C						
Writing (ENG 101)	Code C						
Literature (ENG)	Code CL						
Art or Music	Code CAM						
History	Code CH						
Religious Studies	Code CR						
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						
<u>NOTES</u>							
Prerequisites:	, high cahaal						

preparatory high school cessful completion of a

of college preparatory atics including

nimum needed to

an appropriate math rolling in MTH 193 and

Curriculum Guide does not replace advising by a faculty member within the Chemistry program



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 as designated the Vice President of Compliance Risk and Legal Affairs/Ceneral 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-002903