

Chemistry

School of Arts and Sciences

Inspired to learn

A Bachelor of Science degree in chemistry from Marian University prepares students for a variety of post-baccalaureate options, including professional employment and graduate studies. Through lectures and laboratory opportunities, students gain valuable experience that places emphasis on research and analysis.

Marian's chemistry program offers the following opportunities:

- Internships and cooperative education experiences that are valuable assets to a résumé and graduate or professional school applications.
- A senior research course that provides students the opportunity to carry out a complete research project in conjunction with a supervising professor.
- Faculty who are committed to students' individual success and help guide them along the best path to meet their career goals.

Inspired to lead

Marian's chemistry majors receive a solid background in the sciences and acquire the critical thinking skills that are important for research and analysis. Marian University produces leaders in science and society.

Marian offers experiential learning opportunities for students so that they may apply classroom knowledge. Students have participated in the following research projects and internship experiences:

- Isolation of 26-hydroxylase of 1,25-(OH)₂ Vitamin D₃ in Rat Kidney Cells and Microsomes
UW-Madison Biochemistry Department
- Photochromic Behavior of Organic Dye Molecules in Ethyl Acetate, Polymethyl Methacrylate, and a Soap Film
University of Nevada at Reno, Department of Chemistry
- Building an Automatic Titrator
Marian University
- Organic-Inorganic Hybrid Polymers
North Dakota State University, Department of Coatings and Polymeric Materials

Inspired for success

Marian graduates have the foundation and qualifications to enroll in graduate or professional school and the experience needed to enter the field. Marian's chemistry graduates are prepared for careers or further study in graduate or professional school, including:

- Analytical laboratories
- Biotechnology
- Chiropractic medicine
- Dentistry
- Education
- Government laboratories
- Medical technology
- Medicine
- Pharmacy
- Research and development

Inspired to connect

School of Arts and Sciences

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MARIAN UNIVERSITY
Inspired.

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Chemistry

4-year course sample

Freshman Level

CHE 101	Principles of Chemistry I	4	CHE 102	Principles of Chemistry II	4
ENG 105	Expository Writing	3	ENG 106	Argumentative and Research Writing	3
GEN 101	First-Year Seminar	3	HIS 10x	World Civilizations I or II	3
THE 101	Introduction to Christian Theology	3	MAT 112	Pre-Calculus Mathematics	5
PSY/SOC	Psychology/Sociology Elective	3			
16 credit hours			15 credit hours		

Sophomore Level

CHE 201	Organic Chemistry I	3	MAT 202	Calculus II	5
CHE 251	Organic Chemistry I Lab	1	CHE 202	Organic Chemistry II	3
MAT 201	Calculus I	5	CHE 252	Organic Chemistry II Lab	1
PHI 132	The Examined Life	3	ENG	Literature Elective	3
	Social Science Elective	3		Elective	3
15 credit hours			15 credit hours		

Junior Level

CHE 300	Analytical Chemistry	4	CHE 301	Instrumental Analysis	4
PHS 203	University Physics I	5	CHE 412	Chemistry Literature and Seminar	1
THE	Theology Elective	3	PHS 205	University Physics II	5
	Electives	3	ART/MUS	Elective	3
				Elective	3
15 credit hours			16 credit hours		

Senior Level

CHE 401	Physical Chemistry I	3	CHE 402	Physical Chemistry II	3
CHE 420	Senior Research	3	CHE 451	Physical Chemistry I Lab	1
	Arts/Humanities Elective	3	CHE 452	Physical Chemistry II Lab	1
	Electives	6	CHE 497	Internship	3
			CHE 302	Biology Chemistry	5
				Electives	3
15 credit hours			15 credit hours		

- Minimum GPA of 2.5 in major courses required
- Minimum cumulative GPA of 2.0 required