

Chemistry

Degree: Bachelor of Science in Chemistry

Marietta's Chemistry program produces graduates who are ready for top graduate and professional programs and for careers in the chemical industry. Two things make this possible -- the strength of our faculty and the lab and classroom experiences you receive as a student. At Marietta, you're taught by professors -- not graduate students. These men and women are leaders in their fields, and they're dedicated to teaching and to helping you succeed. Plus, beginning with your first lab course, you'll have access to all the research and instrumentation tools the department has to offer. In fact, you'll get so much lab experience that by your junior or senior year, you'll be conducting your own research projects.

Full-time faculty:

Dr. Debra Egolf, Professor

Suzanne George, Instructor

Dr. James Jeitler, Assistant Professor

Bonnie Martinez, Assistant Professor

Jessie Penich, Instructor

Dr. Kevin Pate, Chair, Associate Professor

Facilities: The Rickey Science Center, a new \$10 million facility features laboratories equipped with the latest technology and instrumentation; including a nuclear magnetic resonance spectrometer, a Fourier-transform infrared spectrophotometer, a gas chromatograph-mass spectrometer, laser equipment, and molecular modeling software.

Sample Courses: (Most include labs)

General Chemistry I, II

Quantitative Analysis

Organic Chemistry I, II

Physical Chemistry I, II

Inorganic Chemistry

Instrumental Methods of Chemical Analysis

Advanced Organic Chemistry

Advanced Inorganic Chemistry

Biochemistry & Advanced Biochemistry

Directed Research

Independent Studies

Honor Societies and Student Organizations:

The American Chemical Society - The chemistry club at Marietta College is active in a number of on and off-campus activities. We take field trips approximately once a semester to chemical plants like DuPont, or other companies that use chemistry in their work, like the West Virginia State Police Forensics Department. We attend local and regional meetings of the American Chemical Society. We conduct fundraising activities, and we are active as tutors and lab assistants. In addition, we attend chemistry presentations on and off campus to hear speakers. Finally, we perform chemistry magic shows for our peers and for school age children.



"I began Marietta College intending to go to medical school, but because I enjoyed my chemistry classes in high school, I chose to major in chemistry. When I began doing research with Dr. William Hohman at Marietta College, I decided that graduate school would be a better choice for me. I received my Ph.D. from Purdue University in Biochemistry. I have spent my entire career at the University of Texas Medical School at Houston, first in the Analytical Chemistry Center doing primarily mass spectrometry, and now in the Department of Biochemistry and Molecular Biology where I teach medical students and graduate students biochemistry. The great education I received in chemistry at Marietta College was invaluable to me and my career path."

Bill Seifert, Class of 1970, Senior Lecturer, University of Texas Medical School, Department of Biochemistry & Molecular Biology.

<http://www.marietta.edu/departments/Chemistry/index.html>

Scholarship Opportunities:

The Ellis L. and Jennie Mae Krause Academic Enrichment Prize is awarded to a freshman who demonstrates the academic excellence required for entrance into medical school or graduate school. This prize is supported by a memorial fund created in 1974 to honor **Erwin Professor of Chemistry Emeritus Dr. Ellis L. Krause**.

The Hans Gilde Scholarship Fund was established in 1992 by the former students of Dr. Hans Gilde, who taught organic chemistry at Marietta College from 1961 until his retirement in 1992. Income from this endowed fund is awarded as a partial tuition grant to the chemistry, biology, or petroleum engineering major who is the most deserving organic chemistry student and who has demonstrated leadership.

The Hohman Scholarship Fund was established in 2001 by former students of Professor William H. Hohman. Initiated by Dr. David G. Stockwell, Class of 1969, the purpose of this fund is to provide an academic scholarship for a second or third year chemistry or biochemistry major based on his/her performance in the introductory chemistry courses.

The Dyer Chemistry Scholarship Fund was established in 1982 by M. Dean Dyer, Class of 1934, to honor the memory of Professors E. L. Krause and E. B. Krause and the tradition of excellence in teaching in the Department of Chemistry of the College. Recipients must have completed their junior year and be chemistry majors.

The Samuel R. Ruby Scholarship Fund was established by his parents, Victor M. Ruby, M.D., Class of 1942, and Sonia Bender Ruby of Atlantic City, N.J. The award is given to a deserving student in chemistry/physics who has completed a full year at the college.

The E.B. Krause Chemistry Achievement Award, memorializes Elwyn Busian Krause, who taught chemistry at Marietta from 1927 to 1960. The award goes to a student who has shown outstanding achievement in a first-year chemistry course.

The Hobba Chemistry Prize, which is the name of his grandchildren, also honors Dr. Ellis L. Krause, and is given to a senior or junior majoring in chemistry with high academic achievement.

The LaVallee Award in Chemistry is given to a graduating senior chemistry major by the Upper Ohio Valley Section of the American Chemical Society. Selection is by the faculty of the Department of Chemistry.

The American Chemical Society Sophomore Award is given to a sophomore student who shows exceptional performance in sophomore chemistry courses and who has the potential of becoming a chemistry major.

Past Internships:

Monroe County Clinic
Marietta Memorial Hospital
Garrett Surgical Group
Department of Pathology, University of Pittsburgh
Eye Care Associates of Marietta
Philadelphia Zoo

What can I do with this degree?

Dentist
Pharmacist
Physician
Patent Lawyer
Teacher
Technical Information Specialist
Researcher
Optometrist

Graduate Schools MC Students Attended:

Emory University, PhD, Physical Chemistry
University of Illinois, PhD, Organic Chemistry
Cornell University, PhD, Chemistry
Ohio State University, PhD, Anatomy
Northwestern University, Chemistry
University of Chicago, Chemistry
Georgia Tech, Physical Chemistry
Rice University, Organic Chemistry

Career Outcomes of MC Graduates:

Market development, Polaroid
Associate Professor, Ohio State University
Operations Chemist, North State Environmental
Chief of Cardiology, St. Elizabeth Medical Center