

# Biochemistry

## Degree: Bachelor of Science in Biochemistry

Marietta's Biochemistry major allows you to combine your scientific interests. With biochemistry, you'll study the chemistry of living organisms -- an ideal starting point for a career in research or a health-related field. And since the major spans two departments, you'll be able to work on individual research projects with professors from both biology and chemistry.

### Full-time faculty:

Dr. David Brown, Associate Professor  
Dr. Debra Egolf, Professor  
Dr. Eric Fitch, Associate Professor  
Suzanne George, Instructor  
Dr. Jennifer Hancock, Instructor  
Dr. James Jeitler, Assistant Professor

Dr. Katrina Lustofin, Assistant Professor  
Dr. Bonnie Martinez, Assistant Professor  
Dr. David McShaffrey, Professor  
Jessie Penich, Instructor  
Dr. Kevin Pate, McCoy Associate Professor  
Dr. Steven Spilatro, McCoy Professor  
Dr. Almuth Tschunko, Professor

### Facilities:

The Rickey Science Center, a new \$10 million dollar facility features laboratories equipped with the latest technology and instrumentation, including everything from a modern cell and molecular biology lab and student research labs to advanced instrumentation and molecular modeling software.

### Sample Courses: (most include labs)

General Chemistry I, II  
Instrumental Methods of Chemical Analysis  
Organic Chemistry I, II  
Biochemistry  
Advanced Biochemistry  
Genetics  
Toxicology  
Immunology

Modern Biology  
Introductory Biology I, II  
Intro to Cellular and Molecular Biology  
Microbiology  
Cell Biology  
Calculus I  
College Physics I, II  
Directed Research & Capstone

### Honor Societies and Student Organizations:

**American Chemical Society – Student Affiliates** – The club brings guest speakers to campus to talk with chemistry majors about career development; organizes field trips to local chemical companies; and performs service projects such as tutoring, magic shows, and fundraisers.

**Beta Beta Beta** - The national biology honor society, encourages scholarship and research, and selects its members from outstanding students in biology. Marietta's Iota chapter is the sixth oldest chapter in the nation.

### 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.

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

**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.

**The Robert Walker Prize in Biochemistry**, which is awarded to the top graduating Biochemistry major as determined by the faculty.

#### **Internships:**

As a biochemistry major, you're able to take advantage of the internship resources that both Marietta's Biology and Chemistry Departments provide. You can work with chemical companies in the region like DuPont, GE Plastics, Chevron, and Hoffmann-LaRoche, or engage in research at major universities and government laboratories. Participation in Marietta's Rounds Program, where students follow physicians on hospital rounds, is also an option.

#### **What can I do with this degree?**

Medical Student  
Pharmacology Researcher  
Dentist  
Research Scientist  
Professor or teacher

#### **Career Outcomes of MC Biochemistry Alums:**

Senior Director of Clinical Research, Genzyme Corporation  
OB/GYN, Ohio Health  
Chemist Supervisor, GOJO Industries  
Optometrist, Department of Veterans' Affairs  
Regional Director, SW Ohio Hunger Alliance



#### **Graduate Schools Attended by MC Biochemistry Alums:**

Duke University, Biochemistry  
Johns Hopkins University, Biochemistry  
Ohio University College of Osteopathic Medicine  
Case Western Reserve University, MS in Physiology and Biophysics  
Ohio State University, Optometry