



# Mount Saint Mary College

DIVISION OF NATURAL SCIENCES

## Chemistry

Bachelor of Arts in Chemistry

**C**hemistry is a dynamic area of study that encompasses a variety of courses in the areas of organic, analytical and physical chemistry, biochemistry, and instrumental methods.

### Chemistry at the Mount

The chemical sciences require an understanding of concepts in mathematics, chemistry, and physics.

Chemistry majors pursue a rigorous course of study that includes a minimum of 34 credits in Chemistry, most of which are in prescribed courses, a year of biological principles, a year of calculus-based general physics, and math courses through Calculus III.

Chemistry majors are also encouraged to participate in research or independent study. Students who are also pursuing teaching certification take a year of Earth Science. They are assigned an additional advisor from the Division of Education to ensure that all New York State requirements are satisfied.

#### A need for science educators

Currently, there is a great need for science teachers at the high school and elementary level as science specialists. Students interested in pursuing teaching should consult the Division of Education for details about courses needed to obtain certification in New York State.

Students can also choose a 5-year program leading to the Bachelor of Arts in Chemistry and a Master of Science in Adolescence Education, with certification to teach in New York State.

### Career Options

A major in Chemistry prepares students for a variety of career options, including entry-level positions in the chemical industry; graduate studies in Chemistry or allied fields; professional schools such as medical or dental school, and careers in teaching (with Education certification).



**“I have always loved science. After high school, my interest in chemistry solidified. I’m constantly surprised by the awesome feats accomplished by chemists around the world.”**

**Adam Earle**  
Merrick, New York



# Chemistry

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## What You Will Study

- Biological Principles I, II
  - Chemical Principles I, II
  - Analytic Geometry and Calculus I, II, III
  - Organic Chemistry I, II
  - General Physics I, II
  - Natural Science Seminar I, II, III
  - Analytical Chemistry
  - Instrumental Methods of Chemical Analysis
  - Biochemistry
  - Physical Chemistry I, II
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### Minor in Chemistry

A minor in Chemistry requires 18 credits.

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## Where our students intern

#### Brookhaven National Laboratory

Science Undergraduate Laboratory Internships

#### Gateway to Dentistry Program

University of Medicine and Dentistry of New Jersey (UMDNJ)

#### The Albert Einstein College of Medicine

Minority Student Summer Research Opportunity

#### SUNY College of Optometry

Collegiate Science and Technology Entry Program

#### Syracuse University Department of Chemistry

Research Experience for Undergraduates Program



**“Students often don’t see the connection between what they read in a book and the world around them. It’s important for them to see that what they are learning has real-life applications.”**

**Lynn Maelia**  
Professor of Chemistry

## Questions?

Contact the Division of Natural Sciences at **845-569-3130** or **Natural.Sciences@msmc.edu**

## Ready to apply?

Contact the Office of Admissions at **1-888-YES-MSMC** or **admissions@msmc.edu**