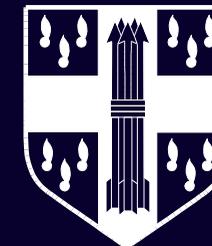


TO LEARN MORE ABOUT THE CHEMISTRY MAJOR:

[www.anselm.edu/chemistry](http://www.anselm.edu/chemistry)  
(603) 641-7155  
[chemistry@anselm.edu](mailto:chemistry@anselm.edu)

SAINT  
ANSELM  
COLLEGE

# CHEMISTRY AT SAINT ANSELM COLLEGE



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## DEVELOPING ETHICAL AND RESPONSIBLE SCIENTISTS

The Saint Anselm College Chemistry Department provides students with the knowledge and skills necessary to excel in chemistry within the context of a liberal arts education. Consistent with the Catholic Benedictine mission of the college, the department seeks to develop ethical and responsible scientists, who are active in their local, national, and global communities. The department engages students in a variety of learning experiences that integrate the teaching and research laboratories with the classroom.

Chemistry, as the central science, is by its nature interdisciplinary, drawing on both the mathematics and physics to understand basic principles and helping to inform the structure and reactivity in biological systems. As such, in addition to chemistry, students demonstrate competency in calculus, physics, and biochemistry.

## THE DEPARTMENT

The Chemistry Department consists of five faculty members with experience in academic, government, and industrial research. Faculty teach laboratory sections, in addition to lecture sections. Additional support is provided by lab instructors. Current faculty include:

Dr. Mary Kate Donais, Ph.D. 1995  
University of Massachusetts, Amherst  
Analytical Chemistry

Dr. Nicole Eyet, Ph.D. 2009  
University of Colorado, Boulder  
Physical Chemistry

Dr. George Parodi, Ph.D. 1978  
University of Pennsylvania  
Physical Chemistry

Dr. Thomas Shell, Ph.D. 2005  
Emory University  
Organic Chemistry

Dr. Carolyn Weinreb, Ph.D. 1994  
Pennsylvania State University  
Organic Chemistry

Dr. Derk Wierda, Ph.D. 1990  
Department Chair  
Harvard University  
Inorganic Chemistry



## MAJORS/MINORS/COURSES

In order to meet the diverse aspirations of Saint Anselm students, our department offers the following:

- Chemistry Major
- Chemistry Major (American Chemical Society Certified)
- Chemistry Major (7-12 Teaching Certified)
- Chemistry Minor

We offer a variety of courses that build upon the foundational curriculum and provide our students with the preparation required to pursue employment or an advanced degree in the chemical sciences. In addition to traditional courses, we have recently offered:

- Forensic Chemistry
- Physical Organic Chemistry
- Environmental Chemistry
- Chemistry of Food
- Archeometry
- Inorganic Chemistry
- Polymer Chemistry
- Medicinal Chemistry

## CHEMISTRY CLUB

Our students work to engage members of our community in science. They fundraise by selling periodic table cupcakes during National Chemistry week, run review sessions, and travel to conferences. There is also office space for our students to use, complete with a refrigerator, coffee maker, and microwave, and of course a periodic table!



## STUDENT CENTERED LEARNING

At Saint Anselm, learning extends beyond traditional lectures. Laboratories are integral to our curriculum, and are designed to be investigative, keeping students engaged in their learning. Hands-on learning is emphasized and students use modern instrumentation in all laboratory classes – including general chemistry, organic chemistry, environmental chemistry, and forensic chemistry. Our classes and lab sections are small, enabling more interaction between faculty members and students.



## RESEARCH

In collaboration with a faculty member, chemistry majors undertake a research project in an area of their own interest. Research projects completed in recent years include:

- Elemental Analysis of Archeological Artifacts from and Ancient Roman Villa
- Analysis of the Factors that Influence the Infrared Spectra of Pollen Grains
- Synthesis of Molecules to Manipulate Biological Systems
- Reactions by Microwave Irradiation
- Detection of Photosterols
- Analysis of Chars from Fabric and Accelerants
- Nitrogen Fixation using Vanadium Complexes

There are several opportunities for compensated student research. The College currently receives funding from the NH-INBRE grant through which paid research fellowships are available. Additionally the Father Michael Summer Research Grant is awarded for a summer research position in collaboration with Chemistry faculty. Many of our students have also obtained summer industry positions or have participated in summer programs at major research universities.

## CAREER PATHS

A chemistry degree from Saint Anselm College can be the beginning to many career paths. Many of our students have successfully pursued a graduate or professional degree, work in industry and government agencies, and teach at colleges and high schools.

- University of Cincinnati
- Colorado School of Mines
- Clemson University
- University of Florida
- University of Hawaii
- College of William & Mary
- Tufts University
- Washington University
- Dartmouth College
- Arizona State University
- University of Rhode Island
- Indiana University
- Rensselaer Polytechnic Institute
- University of Pittsburgh
- University of Oregon
- University of Massachusetts
- Raytheon
- Johnson Matthey Pharma Services
- Sunovion Pharmaceuticals
- Northern Analytical Laboratories
- Teledyne Leeman Laboratories
- Bedford High School
- Malden Catholic High School
- Western New England University