



CHEMISTRY

Stonehill adeptly combines technical training with the liberal arts so that its graduating chemistry majors are not only superb scientists but also well-rounded lifelong learners. Stonehill offers three rigorous and comprehensive programs in chemistry:

Bachelor of Science in Chemistry: An ACS-certified degree that prepares students for graduate school or industrial employment in which the main focus of the work is in chemistry.

Bachelor of Arts in Chemistry: Appropriate for students interested in professional school, direct employment in industry or entry into a nontraditional field combining chemistry with another discipline. This degree provides the flexibility to double major or minor in another field of study, such as education.

Chemistry B.A./Chemical Engineering, B.S. Dual Degree: Students receive a B.A. in chemistry from Stonehill and a B.S. in chemical engineering from the University of Notre Dame. This degree provides the flexibility to double major or minor in another field of study, such as education.

Biotechnology Instruments

- Sorvall ultracentrifuge
- Refrigerated microcentrifuges
- Temperature control water circulators
- Electroporator
- Microplate reader
- PCR and quantitative PCR machines
- Minus 80°C freezer
- Digital-photo-equipped UV transilluminator
- Shaker platform incubator

HONORS SOCIETY AFFILIATION

Phi Lambda Upsilon

The National Chemistry Honor Society

INTERNSHIP OPPORTUNITIES

Places where Stonehill students have recently interned include:

- Chemic Laboratories
- CVS Pharmacy
- Dana-Farber Cancer Institute
- Tufts University

CAREER OUTCOMES

Places where Stonehill graduates have recently been employed include:

- AstraZeneca
- Enthone
- Gillette
- Medfield High School
- NMS Labs
- Pfizer
- Rhode Island Analytical
- Siemens
- St. Jude's Research Hospital

CAMPUS RESOURCES

Shield Science Center

Studying chemistry at Stonehill puts students in a \$34 million, 89,000-square-foot state-of-the-art science center and has them working with accomplished faculty using equipment normally available only to graduate students.

Spectrometers

- Ultraviolet-Visible Spectrophotometers (UV-VIS)
- Spectrofluorophotometer
- High Field Nuclear Magnetic Resonance Spectrometer (NMR)
- Raman Spectrophotometer
- Fourier Transform Infrared Spectrophotometer (FT-IR)

Chromatographs

- High Performance Liquid Chromatography (HPLC)
- Gas Chromatography (GC)
- Flash Chromatography

Chromatographs/Spectrometers

- Gas Chromatograph/Mass Spectrometer
- Ultra Performance Liquid Chromatography/Mass Spectroscopy

Miscellaneous

- Glove Box
- Digital Polarimeter
- Femtosecond Pulse Laser
- Scanning Electron Microscope
- Solution Calorimeter
- Tensiometer



CHEMISTRY

RESEARCH OPPORTUNITIES

Stonehill science students participate in highly competitive and prestigious summer research programs, working in university and industry labs across the country and around the world. Recent experiences include:

- Judith P. Sulzberger Internship Program at the Institut Pasteur in Paris
- Research Experience for Undergraduates (REU) Program in Nanotechnology at UMass-Amherst
- Harvard Stem Cell Institute Summer Program
- New England Primate Research Center Summer Training Program
- NSF-ThaiREU Program in Chemistry in Bangkok at the Chulabhorn Research Institute
- ACS IREU Summer Program at the University of Strathclyde, Scotland
- AMGEN Summer Scholars Program at the University of California, San Diego
- Columbia University REU Summer Program in Organic Chemistry

Stonehill Undergraduate Research Experience

This is an opportunity for students who have completed their first year at Stonehill to perform full-time, high-quality research over the summer under the guidance of an expert faculty researcher. The experience includes weekly lunches, postgraduate career seminars, programwide outings and a student poster session in the fall.

Recent example

Chemistry majors Nisha Khubchandani '16 and Ryan Morrison '15 recently worked with Pamela Lombardi, assistant professor of Chemistry, on "Enantioselective Metal-Catalyzed Allylic Oxidations Using Novel Peptide and NHC Ligands."

Taylor Williams '15 worked recently with Cheryl Schnitzer, associate professor of Chemistry, on "Artificial Photosynthesis."

CAREER SERVICES RESOURCES FOR STUDENTS

General

- The Office of Career Services offers extensive assistance to students seeking employment, pursuing advanced studies

or participating in postgraduate service opportunities. By completing internships and utilizing mentors, students are empowered to build lifelong career management skills.

- Biotech and Pharmaceuticals career lunches

GRADUATE/PROFESSIONAL SCHOOL STUDIES

Graduate programs that Stonehill graduates have attended (Note: Ph.D. students receive full scholarships and a stipend):

- Ph.D. in Chemistry: Boston College, Boston University, Cornell University, Johns Hopkins University, University of California San Diego, University of North Carolina, University of Notre Dame, University of South Carolina, University of Wisconsin-Madison, Temple University, Tufts University, Wake Forest University
- Boston University (dental school D.D.S. and M.A. in forensic science)

Stonehill at a Glance

Founded by the Congregation of Holy Cross, Stonehill College values integrity, tradition and the rewards that come when you pair rigorous academics with world-class faculty committed to their students' success. Our nationally recognized experiential learning programs and focus on service shape graduates into compassionate leaders and global thinkers.

- 2,590 full-time students (1,588 women, 1,002 men).
- 93% of students live on campus.
- 167 full-time faculty (100% of classes taught by professors).
- 13:1 student/faculty ratio (average class size: 19 students).
- Tuition: \$36,160. Room and board: \$13,710.
- 86% retention rate.
- 93% of enrolled students receive financial assistance. Average freshman award, including scholarships, grants, federal student loans and work study, is \$25,451.
- \$50.5 million: amount of aid Stonehill students received in 2013-2014 academic year.
- 80% of the Class of 2013 completed an internship-related experience while at Stonehill.
- Ranked in the top 10% nationally for opportunities abroad, Stonehill offers internships, study and service travel programs around the globe.
- 91% of students participate in internships, study abroad, research practicum or fieldwork.
- 50% of the class of 2013 had secured a job by graduation, double the national average of 25%.

98%

OF ALUMNI ARE IN CAREERS,
TOP GRADUATE PROGRAMS
OR VOLUNTEERING
WITHIN ONE YEAR OF
GRADUATION