



WASHINGTON  
&  
JEFFERSON  
COLLEGE

# Chemistry

Chemistry is the central science, connecting biology, physics, medicine, environmental sciences, neuroscience, and engineering. We offer a rigorous program, certified by the American Chemical Society, and housed in the LEED-certified Swanson Science Center equipped with research-grade instrumentation. Students have the opportunity to conduct one-on-one research with faculty members, often presenting their work at regional and national conferences. We provide leadership opportunities; students can serve as laboratory assistants and participate in outreach events like Saturday Science.

## Program Website

washjeff.edu/chemistry

## Department Chair

Jen Bayline, Ph.D.

jbayline@washjeff.edu

## Faculty

Pat Brletic, Ph.D.

pbrletic@washjeff.edu

Mark Harris, Ph.D.

mharris@washjeff.edu

Robbie Iuliucci, Ph.D.

riuliucci@washjeff.edu

Michael Leonard, Ph.D.

mleonard@washjeff.edu

Steve Malinak, Ph.D.

smalinak@washjeff.edu

Nobu Matsuno, Ph.D.

nmatsuno@washjeff.edu

Deb Polvani, Ph.D.

dpolvani@washjeff.edu

Ashley Smith, Ph.D.

asmith@washjeff.edu

## Office of Admission

60 S. Lincoln St.

Washington, PA 15301

admission@washjeff.edu

724-223-6025

## Major Requirements

CHM 160 Organic Chemistry I

CHM 170 Organic Chemistry II

CHM 260 Inorganic Chemistry

CHM 270 Analytical Chemistry

CHM 300 Biological Chemistry or

BCH 333 Biochemistry

CHM 360 Thermodynamics and Kinetics

CHM 370 Quantum Mechanics

One advanced laboratory

(CHM 380 Synthesis or CHM

385 Chemical Measurements)

CHM 465 Chemistry Seminar

One additional chemistry elective such as

Medicinal Chemistry, Materials

Science, or Independent Research

One year of Calculus

One year of Physics

## Minor Requirements

CHM 160 Organic Chemistry I

CHM 260 Inorganic Chemistry

CHM 270 Analytical Chemistry

One additional chemistry course numbered

170 or higher

Two additional chemistry courses at the

300-level or higher

A full list of courses and descriptions can be found online in the College catalog.

## Beyond the Classroom

Students have many opportunities for research, internships, conferences, and networking beyond the classroom that give them an advantage to prepare for life after W&J.

## Research and Internships

- Students have done internships at the FBI, NYU, Kinex Pharmaceuticals, Mylan, Pitt, & UCLA.
- Our students have presented at national conferences in San Diego, Denver, Orlando, Chicago, New Orleans, & Washington, D.C.
- Students have been awarded W&J funding to conduct research in England, the Netherlands, France, Ecuador, Spain, Costa Rica, & China.

## Careers

- Students have earned graduate degrees from Penn State, Columbia, Princeton, Michigan, Penn, Cornell, Pitt, Stanford, Harvard, Chicago, & MIT.
- They've attended medical school at George Washington, Virginia Tech, Pitt, Penn State, WVU, Temple, & South Carolina.
- They've won fellowships and recognition from Fulbright and the National Science Foundation.

## Alumni Achievements

- Careers include industry, forensic science, patent law, teaching, the brewing industry, toxicology, medicine, research, hospital administration, engineering, & public health.
- Alumni are employed at Merck, DuPont, PPG, Intel, L'Oréal, UPMC, the FBI, & Siemens Engineering. They are surgeons, chemists, physical therapists, hospitalists, lawyers, etc.