



# 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.

## Major Requirements

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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

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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.



## Program Website

[washjeff.edu/chemistry](http://washjeff.edu/chemistry)

## Department Chair

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## Faculty

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## Office of Admission

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[admission@washjeff.edu](mailto:admission@washjeff.edu)

724-223-6025

# 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.



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& JEFFERSON  
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