



Chemistry Tenure-Track Faculty

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Our Mission

is to promote and support the development of students into lifelong voracious learners who are distinguished by:

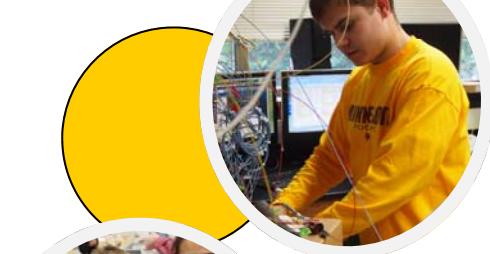
Fundamentally sound knowledge of chemistry

An understanding of how natural science, the environmental and human culture are related

An understanding of how chemistry fits into the natural sciences

Intellectual curiosity

An ability to use the scientific method effectively



<https://gustavus.edu/chemistry/>



CHEMISTRY
GUSTAVUS ADOLPHUS COLLEGE



Our Students

are a major portion of the campus body - we currently have 115 majors, including the Chemistry ACS (professional track), Chemistry (Liberal arts), Biochemistry, and Chemistry Education majors.

are involved in a variety of activities including: student work in the department, study abroad, Chem Club, music, & sports.

conduct research – on- & off-campus / during the academic year & summer.

attend research conferences – and present results of their research at the American Chemical Society national meetings, Protein Society, Midstates Consortium, and symposia at Gustavus.

attend graduate & professional schools – in the past five years, 42 students have gone to graduate school; 26 have gone to medical school, 7 to dental school, and 10 to pharmacy school.

are employed in the science industry – in the past five years, 29 alumni have obtained jobs at companies that include Abbott Labs, Aspen Research, Fred Hutchinson Research Center, MN Pollution Control Agency, & St. Jude's Hospital.

receive national awards (current & alumni) -
- Fulbright Study/Research Grant
- Glenn T. Seaborg Award
- NSF-Predoctoral (Grad Research) Fellowship
- Barry M. Goldwater Scholarship

Our Curriculum focuses on:

Development of quantitative skills

Investigative/research-based laboratories

Hands-on work with modern instrumentation

Development of communication skills

Research opportunities

Chemistry faculty engage interested and capable students in faculty/student research collaborations throughout the academic year in IEX research courses and independent study. Our students often apply for research support through our local Sigma Xi chapter.

Summer is ideal for conducting research projects. We support this work and our students through departmental internal funds and external grants secured by faculty proposals from HHMI, NSF, MN-DNR, Dreyfus, United Science, and the ACS Fluorine Division (to name a few). The College supports summer research for first year students through the FYRE program.

Department and Shared Instrumentation

400 MHz NMR
UV/Vis spectrophotometers
2 FT-IR spectrophotometers
Horiba Jobin fluorimeter
Confocal microscope
Visualization center
ICP-MS, LC-MS, GC-MS
Molecular modeling computer cluster

Tuan Tran '13
ACS Chemistry Major

"The professors in the chemistry department are very friendly and take good care of their students. When I work with my research advisor, I don't feel the barrier between student and professor. At the beginning of my research project, I asked my adviser if I could do anything to help him with his grant proposal, and he told me, 'It is not my project. It is *our* project. We are partners.' I think it is an unusual thing to have a relationship like that with a professor, but a lot of Gustavus students can get that experience if they want."

Student Reflections



Amy Christensen '15
Chemistry and Environmental Studies Major

"My summer research experiences have been indispensable to my education at Gustavus. Not only have they helped me to become more confident in my lab work and pick up new information more quickly in my classes, but they have also opened new avenues for me and my education. Through these experiences, I have been given opportunities to present at conferences and build strong relationships with professors that would not have been possible through typical classroom settings."