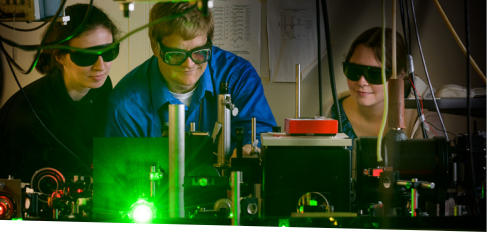
HOOD COLLEGE

The Hood College

Department of Chemistry and Physics

hood.edu/chemphys



The Department of Chemistry and Physics

Studying the sciences at a small liberal arts college provides you with distinct advantages—you will have direct interaction with faculty in a small class setting, hands-on experience with modern laboratory equipment and instrumentation, and the opportunity to do research with faculty members.

Our faculty are experts in their fields, committed teachers and mentors who are dedicated to helping you fulfill your academic and professional ambitions. Our classes involve more than lectures; they stress active participation, team learning and experiments in an innovative curriculum. At Hood, all labs are taught by faculty, not student assistants.

Nearly 100 percent of our graduates are working in their chosen career field or are pursuing advanced degrees. Many of our graduates go on to join competitive graduate programs in chemistry, biochemistry, public health and chemical engineering at institutions such as U.C. Berkeley, U.C. Irvine, Johns Hopkins University, Dartmouth University, Penn State University, the University of Maryland, Northwestern University, Montana State University, UNC Chapel Hill, and the University of Nebraska. Several of our graduates have successfully completed post-professional training in public health, including medical school, veterinary school, P.A. school, and pharmacy school.

Majors, Minors and Concentration

Majors and Concentration

- **Biochemistry** Major (B.A.)
- **Chemistry** Major (B.A.)
- **Environmental Science and Policy** Major (B.A.), **Environmental Chemistry** Concentration
- **4Plus Biochemistry + Biomedical Science** (M.S.)

Minors

- **Chemistry** Minor
- **Physics** Minor

Beyond the Classroom

Some of the nation's top government research agencies and biotechnology firms are located within a short drive of Hood, giving you access to work experiences, research opportunities, lectures and conferences.

Students in our programs have completed internships at a number of nearby institutions, including the U.S. Army Medical Research Institute for Infectious Diseases, the Frederick National Laboratory for Cancer Research, the National Institutes of Health, the National Institute of Standards and Technology, the U.S. Department of Agriculture, the U.S. Food and Drug Administration, as well as some local biotechnology companies.

But even before you move beyond campus, you will have amazing opportunities for research on campus—working side-by-side with experienced faculty for senior-level honors projects, taking part in the Summer Research Institute, and presenting at scientific meetings.

Faculty-Mentored Research

The physical sciences are hands-on disciplines, and nothing prepares you for the next step—whether it be graduate school or your career—like real-world experience. You'll have the opportunity to take part in research in a nearby laboratory or on campus with a Hood faculty member. Some of our faculty research interests include:

- Dr. Kevin Bennett: the study of electrospray ionization fundamentals related to analysis of complex mixtures with liquid chromatography-mass spectrometry
- Dr. Ashish Chakradhar: hydrodesulfurization related chemistry on supported transition metal catalysts for the production of sulfur – free hydrocarbons
- Dr. Susan Ensel: the isolation and identification of medicinally active natural products from plants, microbes, and marine organisms
- Dr. Dana Lawrence: the research of zinc-binding proteins that are important in virus-host cell interactions
- Dr. Christopher Stromberg: ultrafast time-resolved spectroscopy of molecules that are potential catalysts for the production of hydrogen

HOOD BY THE NUMBERS

32 BACHELOR'S DEGREES

19 MASTER'S DEGREES

11 POST-BACCALAUREATE CERTIFICATES

2 DOCTORAL PROGRAMS

8 MASTER'S PROGRAMS THAT CAN BE ACCELERATED AS PART OF THE 4PLUS PROGRAM

AVERAGE CLASS SIZE 15

STUDENT-TO-FACULTY RATIO 11:1

2,037 TOTAL ENROLLMENT

1,182 NUMBER OF UNDERGRADUATE STUDENTS

30 STATES & **14** COUNTRIES OF ORIGIN FOR UNDERGRAD STUDENTS

40% UNDERGRADUATE DIVERSITY

855 GRADUATE STUDENTS

97 FULL-TIME PROFESSORS

95% OF FULL-TIME FACULTY HOLD A TERMINAL DEGREE IN THEIR FIELD

136 PART-TIME AND ADJUNCT FACULTY COMPLEMENT THE FACULTY WITH THEIR EXPERTISE

26% DIVERSITY OF FULL-TIME FACULTY

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Susan M. Ensel, Ph.D.
Whitaker Professor of Chemistry
Chair, Department of Chemistry and Physics
sensel@hood.edu • 301-696-3679

VISIT & APPLY

Hood College
401 Rosemont Avenue
Frederick, MD 21701-8575

301-696-3400
admission@hood.edu

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