Meet the Chair

Patrick Fleming, Chair

Physical Chemistry, Computational Chemistry, & Molecular Spectroscopy

My research primarily focuses on the areas of Molecular Modeling, Green Chemistry and Curriculum Development. In the area of Molecular Modeling, I focus on determining thermodynamic values for systems in which it may be difficult to isolate a specific species, such as chemical intermediates. In the area of Green chemistry, I am interested in understanding and characterizing chemical reactions that can be used to remove pollutants from the environment. In the area of Curriculum Development, I am interested in developing hands-on Molecular Modeling exercises that can be incorporated early in a chemistry curriculum and can be used as bridges toward understanding of more complex topics, as well as the use of the Internet in aiding instruction. I am also working on writing textbooks for physical chemistry and general chemistry.

Our Faculty

- **Mark Borja, Assistant Professor**
  Biochemistry
- **Michael Groziak, Professor**
  Synthetic Organic & Medicinal Chemistry
- **Marlin Halim, Associate Professor**
  Biochemistry
- **Patrick Huang, Associate Professor**
  Physical, Theorectical & Inorganic Chemistry
- **Ann Kotchevar, Professor**
  Organic Chemistry
- **Ann McPartland, Associate Professor**
  Biochemistry
- **Monika Sommerhalter, Professor**
  Biochemistry
- **Ruth Tinnacher, Assistant Professor**
  Environmental Chemistry
- **Stephanie Zaleski, Asst. Professor**
  Analytical and Physical Chemistry
- **Cocoa (Xiaoling) Wang**
  Physical Chemistry

Contact Us

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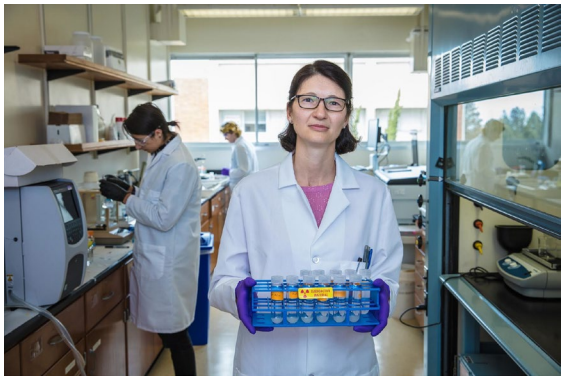
Visit us on the Web:
www.csueastbay.edu/chemistry/

CAL STATE EAST BAY

DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY

Welcome to the Department of Chemistry and Biochemistry!

Chemistry is known as the central science because just about everything that we can touch and feel is made of chemicals. The many applications of chemistry to our lives have created a broad range of opportunities for employment. Combining the bachelor's degree in chemistry or biochemistry with a higher degree can lead to many unique and rewarding careers.



Programs

The Department offers a range of degree programs that vary in scope and specialization, including the B.S. Chemistry degree certified by the American Chemical Society. All majors should consult with a department advisor to develop an individual academic plan of study.

Bachelor of Arts

- B.A. Biochemistry
- B.A. Biochemistry, Chemistry Education Concentration
- B.A. Chemistry
- B.A. Chemistry, Chemistry Education Concentration

Bachelor of Science

- B.S. Biochemistry
- B.S. Chemistry
- B.S. Chemistry, Bioanalytical and Forensics Concentration

Minor

- Chemistry Minor

Master of Science in Chemistry

The Department offers the following courses of study for the Master of Science in Chemistry:

- M.S. Chemistry, Plan A (Thesis)
- M.S. Chemistry, Plan B (Comprehensive Exam)
- M.S. Chemistry, Biochemistry Concentration, Plan A (Thesis)
- M.S. Chemistry, Biochemistry Concentration, Plan B (Comprehensive Exam)

Plan A requires a University Thesis based on original research with a faculty mentor, while Plan B involves completion of a literature review paper and passing terminal written and oral exams.

Research

Opportunities for faculty-mentored research are available for students pursuing the Plan A option. A summary of research activities within the Department can be found in the faculty profile pages.

The Berkeley Lab CSUEB Intern Program is a collaboration between Lawrence Berkeley National Laboratory and CSUEB and provides one year of funding support for M.S. students in the program.

Awards for tuition, travel, and supplies are available from the Center for Student Research. Award recipients present their research at the annual Cal State East Bay Student Research Symposium and may be selected to participate in the system-wide CSU Research Competition.

Master of Science Chemistry Admission

An undergraduate degree in chemistry, biochemistry, or related discipline is required. Applicants should also meet the University graduate admission requirements, and international applicants may also need to demonstrate English language proficiency.

www2.calstate.edu/apply/graduate

Contact

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