

CHEMISTRY

This major provides students with core instruction and excellent research opportunities, including the opportunity to collaborate with scientists in the Chemistry department. Students may select a Bachelor of Arts degree or one of four Bachelor of Science degrees, giving them the chance to focus in the areas of Research, Chemical Nanoscience, or Chemical Biology.

BACHELOR OF ARTS (BA) GENERAL OVERVIEW

Eight lower-division courses:

- Fundamentals of Physics I, II, & III
- General Chemistry for Chemistry Majors A & B
- Calculus I and II
- Calculus III
or Linear Algebra and Linear Differential Equations

Seven upper-division courses:

- Analytical Chemistry
- Organic Chemistry for Chemistry Majors A & B
- Physical Chemistry: Thermodynamics and Kinetics
- Physical Chemistry: Quantum Mechanics
- Physical Chemical Measurements
or Advanced Laboratory Techniques in Organic and Inorganic Chemistry
or Advanced Inorganic Chemistry
or Directed Research
- One additional upper-division science elective

Additional Bachelor of Science (BS) requirements:

- Advanced Inorganic Chemistry
- Advanced Organic Chemistry
- Molecular Principles of Biochemistry
- Physical Chemical Measurements
- One advanced chemistry laboratory course
- Directed Research

ACADEMIC OPPORTUNITIES

Peer Cohort Courses: Exclusive to Biochemistry and Chemistry majors, this program fosters Chemistry community through a sequential peer cohort, smaller class size, low student/teacher ratio, enhanced access to Chemistry faculty, and exposure to Chemistry department resources (internships, events, and scholarships).

Supplemental Instruction: This academic support program provides regularly scheduled, peer-led study sessions for common Biology, Chemistry, Math, and Physics courses.

The Trojan Chemistry Club: A very active student-run undergraduate organization, the Trojan Chemistry Club organizes student-faculty luncheons, hosts receptions for new students, and participates in on-campus events for visiting local high school students.

Society of Cosmetic Chemists: This student-run organization aims to bridge the gap between undergraduate science education and cosmetic science through workshops and hands-on experiments on cosmetic chemistry and skin biology and by building connections with industry professionals.