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.

