College of SCIENCE

Chemistry

About the College

The College of Science provides the region and state with outstanding medical, technical and scientific professionals in fields such as nursing, computer science, psychology and child development, as well as biology, chemistry, physics and mathematics. Headquartered in the state-of-the-art Naraghi Hall of Science, the college provides graduates with the analytical and technical skills that are critical to their success as future scientists, practitioners and teachers.

COS contact info

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Chemistry is known as the central science because the study of matter and energy impacts many disciplines. Throughout the curriculum, chemistry majors develop strong reasoning and analysis skills to solve problems that are put into real practice in our laboratories. Students learn to work individually and collaboratively to carry out hands-on experiments utilizing modern instrumentation in our laboratory based programs.

The Bachelor of Science in Chemistry is nationally certified by the American Chemical Society. The chemistry degree programs prepare students for a range of career options including: graduate study, professional chemist, K-12 teacher, medicine, pharmacy, dentistry, optometry and veterinary medicine.

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Chemistry

Degrees and Programs

- **Bachelor of Arts, Chemistry**
- **Bachelor of Science, Chemistry**
- **Chemistry minor**
- **Concentrations: Those majoring in Liberal Studies can complete their concentration in Chemistry.**

Our faculty

Shane L. Phillips (Chair), Ph.D., UC Davis ('93)

Elvin Aleman, Ph.D., Univ. of Akron ('06)

Claudia Brackett, Ph.D., Univ. of the Pacific ('04)

Michael Drake, Ph.D., SUNY at Buffalo ('04)

Dennis Jones, M.Ed. W. Washington State Univ. ('72)

Tamara Littlewood, Ph.D. Univ. of Missouri ('86)

Mark McCoy, Ph.D. UC Davis ('09)

Scott Russell, Ph.D., UC Davis ('05)

Chad Stessman, Ph.D., Arizona ('98)

Nhu-Y Stessman, Ph.D., Arizona ('99)

Koni K. Stone, Ph.D., Wayne State ('90)

Interesting classes you might take

Biochemistry
Computer Methods in Chemistry
Instrumental Analysis
Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Quantitative Analysis

Course Spotlight

CHEM 4100: Instrumental Analysis

Instrumental methods of chemical analysis including discussion of the theory and applications of nuclear magnetic resonance, electron spin resonance, mass spectroscopy, infrared, Raman, visible, ultraviolet, and atomic absorption spectroscopy; specific ion electrode methods; gas and liquid chromatography..

Go online to http://catalog.csustan.edu for more course descriptions.

What you can learn

- **A firm knowledge of major classes of chemicals, their reactivity and their physical properties**
- **Hands-on experience working with modern instrumentation and performing standard laboratory techniques**
- **To develop strong analytical and reasoning skills built on a solid math and science foundation.**
- **To work individually and collaboratively to solve scientific problems**

What you can earn

- **Lab Technician, $38,000**
- **Environmental Chemist, $55,000**
- **Analytical Chemist, $56,000**
- **Chemistry Teacher, $58,000**

Source: Indeed.com 2014, CA

Contact information

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www.csustan.edu/chemistry