

# CHEMISTRY

## School of Mathematics, Science, and Engineering

**Dean:** Silvia Nadalet, Ed.D.

**Department Chair:** Tinh-Alfredo Khuong, Ph.D.

**Office:** 60-125 (619) 482-6459

**School/Department Location:** [www.swccd.edu/cvlocation](http://www.swccd.edu/cvlocation)

**Map:** <https://goo.gl/maps/C4E3PnKsdU92> (<https://goo.gl/maps/C4E3PnKsdU92/>)

Kathryn Mayer, Ph.D.  
kmayer@swccd.edu

Rebekah Stassinopoulos, Ed.D.  
rstassinopoulos@swccd.edu

Kevin Sweeney, Ph.D.  
ksweeney@swccd.edu

Joann Um, Ph.D.  
jum@swccd.edu

## General Description

Chemistry is a physical science that focuses on the composition, structural properties, reaction of substances, and the means by which matter is converted from one form to another. This discipline explores the fundamentals of organic and inorganic matter, chemical structure and reactivity, qualitative and quantitative analyses, laboratory procedures that include strong emphasis on modern instrumental methods, research methodologies, and quantum mechanics.

## Career Options

Below is a sample of the career options available to the chemistry major. A few require an associate in science degree, some require a bachelor's degree, and most require a graduate-level degree: high school or college teacher, analytical chemist, biochemist, polymer chemist, medical doctor, dentist, laboratory technician, and technical sales representative. Entry-level career opportunities are available in biotechnology, biomedical instrumentation, diagnostics, immunochemistry, pharmaceuticals, basic research, and environmental control agencies.

Degree/Certificate Options	Major Code
<b>Associate in Science Degree:</b>	
<b>Transfer Preparation</b>	
Chemistry ( <a href="http://catalog.swccd.edu/associate-degree-certificate-programs/chemistry/chemistry-as/">http://catalog.swccd.edu/associate-degree-certificate-programs/chemistry/chemistry-as/</a> )	01530

Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

### Websites for chemistry majors:

**SDSU:** [www.chemistry.sdsu.edu](http://www.chemistry.sdsu.edu) (<http://www.chemistry.sdsu.edu>)

**UCSD:** [www.chemistry.ucsd.edu](http://www.chemistry.ucsd.edu) (<https://www-chem.ucsd.edu/>)

**CSU, San Marcos:** [www.csusm.edu/chemistry](http://www.csusm.edu/chemistry) (<http://www.csusm.edu/chemistry/>)

**Articulation:** [www.assist.org](http://www.assist.org) (<http://www.assist.org>)

## Faculty

Craig Cavanaugh, Ph.D.  
ccavanaugh@swccd.edu

Juan Gonzalez-Gonzalez, M.S.  
jgonzalez3@swccd.edu

David Hecht, Ph.D.  
dhecht@swccd.edu

Tinh-Alfredo Khuong, Ph.D.  
tkhuong@swccd.edu