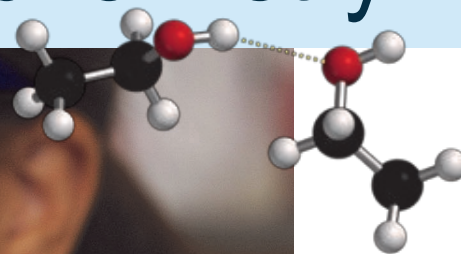


# Department of Chemistry & Biochemistry



## Core Disciplines

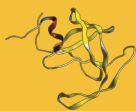
**Analytical:** emphasis is on determining chemical composition of samples.

**Biochemistry:** emphasis is on characterizing biomolecules (e.g. proteins, nucleic acids, carbohydrates) and determining their biological function.

**Inorganic:** emphasis is on synthesis, reactivity and analysis of materials in which elements other than carbon play the key roles.

**Organic:** emphasis is on structure, properties, and reactivity of carbon-based molecules.

**Physical:** emphasis is on the mathematical basis for chemical phenomena.



## General Facts on Employability

Chemistry is a practical field with a broad range of career possibilities. Salaries depend on degree earned and level and type of experience. Within 2-4 years of graduating with a BS or BA degree, the median salary for chemists is \$42,000, with the lowest and highest 10% earning \$31,000 and \$53,000 respectively. At the other extreme, within 25-30 years of obtaining a PhD, the median chemist's salary is \$104,000, with the lowest and highest 10% earning \$67,000 and \$170,000 respectively. While chemists with different degrees may work on the same projects together, a higher degree (PhD vs. MS vs. BA) allows greater autonomy & responsibility. Unemployment rates in chemistry are typically below 2%.

## Fields Related to Chemistry:

Aerospace  
Pharmaceuticals  
Agricultural  
Cosmetic  
Energy  
Biotechnology  
Public Health

Food  
Textile and Fashion  
Forensics  
Environmental Concerns  
Alternative Fuels  
Advertising  
Information Technology

## Careers Related to Chemistry:

Pharmacist  
Physician  
Veterinarian  
Educator  
Dietician  
Chemical Engineer  
Journal Editor  
Scientific Consultant  
Neuroscientist  
Communications  
Pathologist  
Investment Banker  
Food and Drug Inspector  
Toxicologist  
Engineer  
Museum Curator  
Government Advisor  
Librarian

Pharmacologist  
Dentist  
Researcher  
Criminologist  
Geneticist  
Industrial Hygienist  
Book Publisher  
Film Consultant  
Aesthetician Visual  
Ophthalmologist  
Inventor  
Nutritionist  
Food and Drug Analyst  
Patent Examiner  
Ceramic  
Lawyer  
Art Conservationist  
Pyrotechnician  
Federal Agent