

Learning Outcomes

Students will learn a firm foundation in the fundamentals and application of current chemical and scientific theories including those in Analytical, Inorganic, Organic and Physical Chemistries.

Students will be able to design and carry out scientific experiments as well as accurately record and analyze the results of such experiments.

Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems.

Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.

Students will appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals, environmental issues and key issues facing our society in energy, health and medicine.

Students will be able to explain why chemistry is an integral activity for addressing social, economic, and environmental problems.