BIOC-240: Enzymology

The kinetic and mechanistic theory of enzyme action will be discussed with emphasis on the experimental approach used to interpret kinetic data and determine the kinetic parameters of classical enzymes and well-defined regulatory and transport systems. The steady-state rate equations for a number of unireactant and multi-reactant mechanisms will be developed. Reversible inhibition, isotope exchange, binding phenomenon, activation, environmental effects, and physiological regulation of enzyme activity will be considered separately.
Credits: 3
Prerequisites:
Calculus; physical chemistry (thermodynamics, chemical kinetics, catalysis) or permission of the instructor.
Program: Biochemistry