

BIO 304 : Biochemistry (+lab)

Topics include the structure and function of proteins, carbohydrates, lipids and nucleic acids. Enzyme kinetics, regulation and mechanisms are emphasized. Thermodynamics and phosphate compounds are studied. Students examine important metabolic pathways, including glycolysis, the citric acid cycle, electron transport and oxidative phosphorylation, beta oxidation, fatty acid biosynthesis and the urea cycle. Standard laboratory techniques of the biochemist are introduced. A \$50 lab fee is charged.

Credits 4

Prerequisites

[CHE 307](#) or permission of instructor

Semester Offered

Offered fall