

BIOC 302: Introduction to Biochemistry: Metabolism

In this course we will discuss biochemical concepts within the context of metabolic pathways and disease. The topics will include, cell respiration, fat metabolism, protein metabolism and diseases associated with a perturbation of these processes. We will dive deep into the primary literature to gain knowledge of cutting-edge research being conducted. We will start from the beginning to discuss the different macromolecules present in our cell, and then continue to build until we have a comprehensive understanding of various metabolic processes occurring in the cell.

Learning Objectives

- Identify key concepts that are common in most metabolic pathways.
- Describe how the disruption of these processes can cause human disease and the treatments available to combat these diseases.
- Compare various metabolic techniques used to conduct research in the field of metabolic diseases.

Sample syllabus is subject to change.

Credits: 2

Class Type: Graduate Course

Prerequisites:

BIOC 301

The above course(s) or equivalent background knowledge .

Program: Biochemistry, Chemistry, Pharmacology, and Toxicology

Availability Spring 2022

Session Session B