

# EGSC 441 : Genetic Engineering - Cellular and Molecular Biology

Introduction to current concepts and experiments in gene manipulation and molecular techniques to understand genomics, gene expression and control of cells. Cellular energetics, transmembrane transport, intra-and intercellular communication, and cell cycle control and cell death. This course incorporates synthetic biology approaches, engineering DNA components to address practical problems.

**Semester Hours** 4.0

**Prerequisites**

BIOL 300