BIEN 410. COMPUTATIONAL METHODS IN BIOMOLECULAR ENGINEERING.

Credits: 3

Offered by: Bioengineering (Faculty of Engineering)

Terms offered: Fall 2025

View offerings for Fall 2025 in Visual Schedule Builder.

Description

Introduction to computational biomolecular engineering. Biomolecular simulation: deterministic simulation, stochastic simulation. Biomolecular modeling: energy minimization, coarse-grained methods. Computational biomolecular design: protein design, protein docking, and drug design. Computational systems and synthetic biology: computer simulation of biomolecular circuits.

- (3-0-6)
- Prerequisites: BIEN 310 and COMP 208, or permission of instructor.