BIEN 320. MOLECULAR, CELLULAR AND TISSUE BIOMECHANICS.

Credits: 3

Offered by: Bioengineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Basic mechanics of biological building blocks, focusing on the cytoskeleton, with examples from pathology. At the macromolecular level: weak/variable crosslinking and hydrolysis driven athermal processes. At the cellular/tissue level: cell architecture and function. Discussion of modern analytical techniques capable of single-molecule to tissue scale measurements.

- (3-2-4)
- Prerequisites: BIOL 112 and MECH 210.