

CHEE 561. INTRODUCTION TO SOFT TISSUE BIOPHYSICS.

Credits: 3

Offered by: Chemical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Soft tissue structure and function: tissue, cell, and molecular scales. Interstitial solute transport, modeling effective transport properties (diffusivity, partitioning). Poroelastic mechanics, modeling of mechanical properties (modulus, permeability). The electrical double layer, electrostatic component of modulus, modeling electrokinetic phenomena (streaming potential, electroosmosis). Applications: biomechanics, mechanobiology, tissue engineering, functional assessment, biomedical entrepreneurship.

- (3-1-5)
- Prerequisite: CHEE 315 or permission of the instructor

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