

ME 7700: Tran Phen in Bio Systems

This course provides an introduction to the modeling and interpretation of transport in living tissue and cells. Topics include momentum, heat and mass transfer in arteries, water and solute exchange in the microcirculation, mass transfer across cell membrane, renal physiology and gas exchange in the lung. Prerequisite: Undergraduate fluid mechanics or transport courses, or instructor's consent.

Credits: 3

Program: Mechanical Engineering