

# Biofluid Mechanics

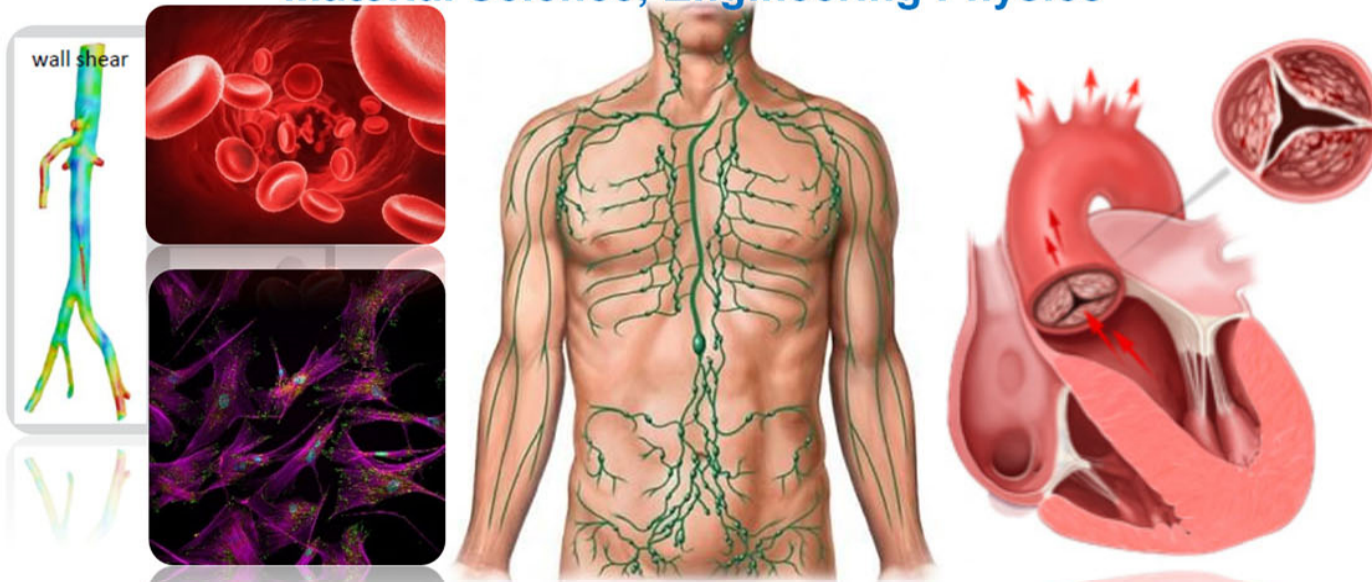
Spring 2017

MAE 4650/4651/5650

TTR: 10:10AM - 11:25AM

Hollister 312

Undergraduate, M.Eng: Mechanical, Biological, Biomedical, Chemical,  
Material Science, Engineering Physics



The transport of energy, mass, and momentum is essential to the function of living systems. Changes in these processes often underlie disease conditions. This undergraduate and masters level course covers the understanding and analysis of micro-macroscopic fluid flow phenomena within the human body and the relation between fluid flow and physiological processes. The topics covered in this course span from cellular level to organs under healthy and diseased conditions.

- Mechanics Of Blood Flow
- Flow in Heart Failure
- Heart Valves Mechanics
- Computational Fluid Dynamics: Human Circulation
- Fluids in human disease

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