## **Biofluid Mechanics**

**SPRING 2016** 

MAE 4650/4651/5650

TTR: 10:10AM - 11:25AM Hollister 206

Undergraduate, M.Eng: Mechanical, Biological, Biomedical, Chemical,

<u>Material Science, Engineering Physics</u>



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.

**CornellEngineering** 

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

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