

# COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

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## **BIOE C213/MECHE C213 - FLUID MECHANICS OF BIOLOGICAL SYSTEMS (3 UNITS)**

(Taken from the UC Berkeley Course Guide (<http://guide.berkeley.edu>))

### **COURSE OVERVIEW**

#### **SUMMARY**

Fluid mechanical aspects of various physiological systems, the circulatory, respiratory, and renal systems. Motion in large and small blood vessels. Pulsatile and peristaltic flows. Other biofluidmechanical flows: the ear, eye, etc. Instrumentation for fluid measurements in biological systems and for medical diagnosis and applications. Artificial devices for replacement of organs and/or functions, e.g. blood oxygenators, kidney dialysis machines, artificial hearts/circulatory assist devices.

#### **PREREQUISITES**

MECHE 106 ([meche106.html](#)) or equivalent; 265A or consent of instructor

Spring only

#### **WORKLOAD**

#### **TIME COMMITMENT**

3 hours of lecture.

Made by Angela Lee, c/o 2019



(<https://www.fsa.fsu.edu/ugrad/career/>) ([https://careercenter.kent.edu/ugrad/current-students/peer-](https://careercenter.kent.edu/ugrad/current-students/peer-advising)  
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