Bioengineering/Physiology 6000
System Physiology I:
Cardiovascular, Respiratory, and Renal Systems

Description
The goal of this course is to understand the concepts and mechanisms of systemic cardiovascular physiology based on a survey of a variety of animal systems. The course assumes a basic knowledge of human physiology and builds on that knowledge by examining the adaptation of other species to meet their challenges and maintain homeostasis. There is substantial emphasis on engineering approaches, quantitative methods, and simulation.

Essentials
Class times: Monday, Wednesday, and Friday, 9:40-10:30
Classroom: MEB 2325
Labs: Friday, 1:00-4:00 in MEB 1480

Instructors: Frank Sachse (frank.sachse@utah.edu)
             Rob MacLeod (macleod@sci.utah.edu)

TAs: Alexis Johnson (alexis.kate.johnson@gmail.com)
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       Additional readings may be assigned throughout the course.

Grading
• Exams: 45% total from exams I, II, and III, worth 15% each
• Laboratory Exercises: 30%
• Semester Project: 20%
• Homework assignments: 5%