BME 484  
Biomedical Engineering Capstone Design I  
Fall 2010

Course description: Applications of engineering skills; team projects in biomedical areas such as neuroengineering, assistive technology, cardiopulmonary measurements, medical imaging, and modeling of physiological systems.

Instructor: Fred Vetter, Kelley Annex A-209  
phone: 401-874-5141  
e-mail: vetter@ele.uri.edu  
office hours: any time  
web: www.ele.uri.edu/faculty/vetter/BME484

Team Meeting: Thursday 3:30 – 4:20 pm, Kelley Hall 216

Laboratory: Monday 1:00 – 3:45 pm, Kelley Annex A14

Prerequisites: BME 207 and BME 360, BME senior standing


Attendance: Course meeting times were tailored specifically to your class schedules. If you must miss any class meeting, complete an Absence Request form (on the web page), have it signed by all your team members, and submit to Professor Vetter at least one week before your absence.

Grade Distribution and Due Dates

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<th>Item</th>
<th>Mid-term (Oct 25)</th>
<th>Term End (Dec 9)</th>
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Important Dates:
- September 14: Last day for “Open Add”
- September 21: Last day to ADD courses via permission number
- October 11: No class, Columbus Day
- October 12: (Tuesday) Monday classes meet
- November 3: Last day to DROP courses
- November 10: (Wednesday) Thursday classes meet
- November 25: No class, Thanksgiving
- December 9: Last class meeting

Accommodations: Any student with a documented disability should contact me early in the semester so that we can make reasonable accommodations to support your success in this course. You should also contact Disability Services for Students, Office of Student Life, 330 Memorial Union, 874-2098.

ABET Program Outcomes covered in this course:
B. an ability to design and conduct experiments;
C. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
D. an ability to function on multi-disciplinary teams;
F. an understanding of professional and ethical responsibility;
G. an ability to communicate effectively;
H. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
I. a recognition of the need to engage in life-long learning;
J. a knowledge of contemporary issues;
K. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
L. an ability to critically evaluate alternate assumptions, approaches, procedures, and tradeoffs related to engineering problems.

ABET Professional Component contribution of this course:
Engineering Design: 2 credit hours