

PSIO/BME 511 - Physiology for Biomedical Engineering

Course Structure and Grading Policy Spring Semester 2011

Course coordinator, Erika Eggers, Ph.D., 626-7137 AHSC-4109

MWF Lectures: 9 – 9:50 AM in room 8403 AHSC

Course Description:

This course in human physiology contains an extended discussion of the Nervous System, Cardiovascular, Renal, Respiratory, Endocrine and Gastrointestinal Physiology presented at the systems level but building on cell and molecular physiology and leading to an integrated view of the function of the human organism. The lectures are designed to introduce individual elements and concepts that constitute physiology, and to integrate these basic principals into a picture of the complete system. The course also includes a research grant project that is designed to encourage students to think about these physiology fundamentals in terms of new research.

Course Notes & Text:

Handouts for each lecture are provided at the physiology class website and indicate readings in the required text **Medical Physiology**, by Walter Boron and Emile Boulpaep Saunders Elsevier Publishing 2008. Each student is expected to come to class having read and completed the assigned material.

Teaching

Primary lecturers, email, phone, office location

Heddwen Brooks	< brooksh@u.arizona.edu >	626-7702	MRB-413
Jan Burt	< jburt@u.arizona.edu >	626-6833	MRB 422
Ralph Fregosi	< fregosi@u.arizona.edu >	621-2203	Gittings 119C
Kati Gothard	< kgothard@email.arizona.edu >	626-1448	LSN 342
Sean Limesand	< limesand@ag.arizona.edu >	626-8903	Shantz 231
Paul McDonagh	< pmcdonag@email.arizona.edu >	626-2329	SHC 6154
Pat Hoyer	< hoyer@u.arizona.edu >	626-6688	COM 4122
Ron Lynch	< rlynch@u.arizona.edu >	626-2472	MRB 111

MRB: Medical Research Building; SHC – Sarver Heart Ctr., COM: College of Medicine

Exams and Grades

The final grade will be based on 6 exams and a research grant project. The exams are typically in short answer, multiple choice, and fill-in-the-blanks format. If there are any scheduling problems with the exam dates, please contact Dr. Eggers in advance. The percent weight for each exam relates roughly to the number of lectures/sessions for each respective topic. For exams dates please refer to the schedule. The total of the exams is worth 88% of the total course grade. Information about the research grant project will be discussed at the first course organizational meeting. Refer to the schedule for due dates of the research project. The research project is worth 12% of the total course grade.

Worldwide Web Access Site. Information for this course can be accessed through D2L website (<http://d2l.arizona.edu>). Log in to the site using your UA NetID, and the course should be available on your homepage. If you do not see the BME/PSIO 511 information please contact the D2L help desk through the website. Any questions regarding the course can be forwarded via email to Dr. Eggers at eeppers@u.arizona.edu.

Exam Date	Time	Section & Exam Weight/ Class total	Room
February 1	9A	Cardiac: Burt and McDonagh - 18%	COM 8403
February 15	9A	Renal – Brooks 11%	COM 8403
March 9	9A	Endocrine – Limesand and Hoyer 19%	COM 8403
April 2	9A	Respiratory – Fregosi 14%	COM 8403
April 16	9A	Gastrointestinal – Lynch 11%	COM 8403
May 7	10:30A	Neurophysiology - Gothard 15%	COM 8403

Due Dates for Research Grant Project (12% of total grade)	Part of Project Due	% of total Project	Turn in
March 5	List of research sources consulted and specific aim	5%	D2L by 11:59 PM
April 30	Completed research proposal	95%	D2L by 11:59 PM