



The Florida State University
College of Medicine

Clinical Organ Physiology

BMS 6511

Spring 2011

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Instructors

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Course Overview

Learning Objectives

Broad Educational Objectives for Clinical Physiology

1. Demonstrate an understanding of the normal function and dysfunction for each organ system and how all systems interface to maintain a viable homeostatic environment.
2. Understand the physiology underlying the symptoms seen in dysfunction of each organ system and how they relate to the body as a whole.
3. Demonstrate the ability to apply clinical data to the diagnosis and treatment of physiological malfunction in the organ systems.
4. Develop an adequate basis of knowledge in physiology on which to build as the student advances through to the second year courses and clerkships.

Knowledge

1. Recognize the scientific bases of health, disease, and medicine to common and high impact medical conditions in contemporary society.
2. Describe the function of the healthy human body and each of its major organ systems at the macroscopic, microscopic, and molecular levels.
3. Recognize and discuss the implications of altered structure and function (pathology and patho-physiology) of the body and its major organ systems that are seen in various diseases and conditions.
4. Identify changes in the function of the human body associated with the aging process and be able to distinguish normal changes associated with aging from those that denote disease.
5. Describe basic clinical science principles to analyze and solve problems related to the diagnosis, treatment, and prevention of disease.

Skills

6. Demonstrate the ability to evaluate the patient's medical problems and to formulate accurate hypotheses to serve as the basis for making diagnostic and treatment decisions.
7. Demonstrate the ability to acquire new information and data and to critically appraise its validity and applicability to one's professional decisions, including the application of information systems technologies for support of clinical decision-making.

Attitudes/Behaviors

8. Demonstrate professionalism and high ethical standards in all aspects of medical practice, specifically competence, honesty, integrity, compassion, respect for others, professional responsibility and social responsibility.

Competencies

FSUCOM – Competencies -Course Title BMS 6511		
Competency Domains	Competencies Covered in the Course	Methods of Assessment
Patient Care	X	Small group, simulation exercises
Medical Knowledge	X	Written and practical exams and quizzes; NBME Subject Exam
Practice-based Learning		
Communication Skills	X	Faculty and TA observation
Professionalism	X	Faculty and TA observation
System-based Practice		
NOTES:		

Policies

Americans with Disabilities Act

Candidates for the M.D. degree must be able to fully and promptly perform the essential functions in each of the following categories: Observation, Communication, Motor, Intellectual, and Behavioral/Social. However, it is recognized that degrees of ability vary widely between individuals. Individuals are encouraged to discuss their disabilities with the College of Medicine's [Director of Student Counseling Services](#) and the FSU Student Disability Resource Center to determine whether they might be eligible to receive accommodations needed in order to train and function effectively as a physician. The Florida State University College of Medicine is committed to enabling its students by any reasonable means or accommodations to complete the course of study leading to the medical degree.

[The Office of Student Counseling Services](#)

Medical Science Research Building
G146

Phone: (850) 645-8256 Fax: (850) 645-9452

This syllabus and other class materials are available in alternative format upon request. For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center

97 Woodward Avenue, South

Florida State University

Tallahassee, FL 32306-4167

Voice: (850) 644-9566

TDD: (850) 644-8504

sdrc@admin.fsu.edu

<http://www.fsu.edu/~staffair/dean/StudentDisability>

Academic Honor Code

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. (Florida State University Academic Honor Policy, found at <http://www.fsu.edu/~dof/honorpolicy.htm>.)

Attendance Policy

The College of Medicine has detailed attendance policies as they relate to each cohort and events that conflict with course schedules. See pages 27-29 of [FSUCOM Student Handbook](#) for details of attendance policy, notice of absences and remediation.

Required Materials

Costanzo, L.S. Physiology, Saunders, 4th Edition, 2010.

Suggested Materials

Supplemental readings and resources (most are available online via COM library):

Ganong, William F. Review of Medical Physiology, 23rd edition, 2009.

Color Atlas of Physiology, 2003. www.theime.com (COM library e-book)

Color Atlas of Pathophysiology, 2000. www.theime.com (COM library e-book)

Durbin, D. Rapid interpretation of EKG's, 6th Edition, 2000.

Costanzo, L.S. Physiology: Case and Problems, 2nd Edition, 2006

Pretest Physiology (USMLE Step1) by James Ryan and Michael Wang
10th Ed (2002), Published by McGraw-Hill, ISBN: 0071371990.

Access Medicine Library Web site monographs

1. Cardiovascular Physiology, 6th Edition

David E. Mohrman, Lois Jane Heller

2. Vander's Renal Physiology, 6th Edition

Douglas C. Eaton, John P. Pooler

3. Pulmonary Physiology, 7th Edition; Michael G. Levitzky

4. Gastrointestinal Physiology; Kim E. Barrett

5. Endocrine Physiology, 2nd Edition; Patricia E. Molina

Grading

Assignments and weights

There will be 4 integrated examinations (Physiology, Biochemistry, and Doctoring 103). There will be 50 physiology questions on each exam. Questions will be one-best-answer LCME Step I examination format. It is anticipated that each test will be worth 50 points, although it is possible that problems with an exam question will alter the total points for a given test.

The NBME Basic Sciences Subject Examination in Physiology will be administered at the end of the semester. The score for this exam will be normalized using a 50 point scale. Point assignment will be based on both class average and class standard deviation.

There will be 11 quizzes with a maximum value of 5 pts each. Quizzes will be administered in a combined format with the Biochemistry quiz at 1:00 PM on Fridays. There will be a maximum total of 50 possible points for quizzes (lowest quiz will be dropped).

The final course grade will be based upon the percentage of the total available points obtained from a maximum possible of 300 points. Again, if slight point adjustments are needed, they will be clearly explained and all students will have no doubt as to the mechanism by which their final grade is determined.

Grading Scale

Grade	Percentage
A	> 90%
B+	87 – 89.9%
B	80 – 86.9%
C	70 – 76.9%
C+	77 – 79.9%
D	65 – 69.9%
F	<64.9%