

SYLLABUS**PHA6509****SYSTEMS PHYSIOLOGY AND PATHOPHYSIOLOGY – II****3 Credit Hours****Spring 2023****OBJECTIVES**

Systems Physiology and Pathophysiology-II is the second of a two-course sequence that aims to provide graduate students in the Department of Pharmacodynamics with an integrated knowledge base in the physiological functions of the human body and pathological changes pertinent to the development and progression of various diseases. As an integral component of the Ph. D. curriculum, the two courses will provide students with a solid understanding of human pathophysiology in preparation for their dissertation research. Specifically, upon completion of the sequence, students should be able to:

1. Understand physiological processes at the molecular, cellular, organ and system level;
2. Understand mechanisms responsible for the control and coordination of various functions;
3. Understand the integration of the organ systems in maintaining homeostasis;
4. Understand the mechanisms of disease initiation, progression and sequela;
5. Recognize the signs and symptoms of major disease states or processes; and
6. Demonstrate familiarity with normal and abnormal values of physiological variables.

FACULTY**Instructors****Email**

Dr. Maureen Keller-Wood
 Dr. Janel Soucie
 Dr. Lihui Yuan
 Dr. Fan Zhang

kellerwd@cop.ufl.edu
 jsoucie@cop.ufl.edu
 yuanlh@cop.ufl.edu
 fzhang1@ufl.edu

Coordinator: Dr. Bin Liu; Email: liu@cop.ufl.edu; Phone: 352-273-7727; Office: MSB P2-31

COURSE FORMAT

The course consists of multiple components:

- (a) Lecture videos of PHA5561, Pathophysiology and Patient Assessment-II
- (b) Interactive sessions with instructors
- (c) Assignments from instructors and/or presentations by students

COURSE MATERIALS

Course materials include lecture videos, slides, and reading assignments.

The recommended textbook for the course will be: Pathophysiology of Disease: An Introduction to Clinical Medicine, 6e; **Stephen J. McPhee, Gary D. Hammer.**

Faculty may also provide review chapters or articles and research papers to the students for the discussion sessions.

ATTENDANCE POLICY

Students are required to watch all lecture videos and attend all interactive sessions.

EVALUATION OF PERFORMANCE

Grades will be based on performance on the essay exams that are based on materials covered in the lectures, discussion sessions and additional assignments from the instructors and the participation of the discussion session. The point breakdown is as follows.

Module	Points
Exams	330
Discussion sessions	40
Total:	370

	Module	Instructor	Content	Points
Exam 1	Module 1	Dr. Yuan	Lectures & Discussion	80 (Essay) + 20
Exam 2	Module 2	Dr. Soucie	Lectures	40 (MC)
		Dr. Zhang	Lectures	20 (MC)
Exam 3	Module 3	Dr. Yuan	Lectures & Discussion	60 (Essay) + 10
		Dr. Keller-Wood	Lectures & Discussion	30 (Essay) + 10
		Dr. DeRemer	Lectures	20 (MC)
Exam 4	Module 4	Dr. de Lartigue	Lectures	80 (MC)

Makeup for missing an exam/required activity

When an emergency/occasion arises that may make it impossible for a student to take a regularly scheduled exam or attend a pre-schedule activity, inform the course coordinator and the relevant instructor at the earliest possible time. Afterwards, follow through with the course coordinator and the relevant instructor to discuss and set up the makeups.

Grading Scale

Percent Grade	Letter Grade	GPA
≥ 93.0%	A	4.00
90.0% - 92.9%	A ⁻	3.67
87.0% - 89.9%	B ⁺	3.33
83.0% - 86.9%	B	3.00
80.0% - 82.9%	B ⁻	2.67
77.0% - 79.9%	C ⁺	2.33
73.0% - 76.9%	C	2.00

70.0% - 72.9%	C-	1.67
67.0% - 69.9%	D+	1.33
63.0% - 66.9%	D	1.00
60.0% - 62.9%	D-	0.67
< 60.0%	E	0.00

PROFESSIONAL CONDUCT

Students are expected to adhere to the University of Florida Honor Code “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity”. Academic dishonest will result in earning a failing grade (i.e., E) for the entire course and additional consequences dictated by University of Florida code of conduct.

Appendix A: Schedule

Date	Time	Lecture Topic	Instructor
Module 1: Renal Pathophysiology			
01/09-01/13		Lectures 1.1 – 1.3	Dr. Yuan
01/16-01/20		Lectures 1.4 – 1.5	Dr. Yuan
01/20 (Fri)	3 - 5 pm	Discussion (Room P2-20)	Dr. Yuan
01/23-01/27		Lectures 1.6 – 1.8	Dr. Liu
01/30 (Mon)	3 - 5 pm	Discussion (Room P2-20)	Dr. Yuan
02/03 (Fri)	3 - 5 pm	Exam 1 (Room P2-20)	Dr. Liu
Module 2: Respiration Pathophysiology			
02/06-02/10		Lectures 2.1 – 2.3	Dr. Soucie
02/13-02/17		Lectures 2.4 Lectures 2.5 – 2.10	Dr. Soucie Dr. Zhang
02/20 (Mon)	3 - 5 pm	Exam 2 (Room P2-20)	Dr. Liu
Module 3: Endocrine System			
02/21-02/24		Lectures 3.1 – 3.2 Lectures 3.3	Dr. Yuan Dr. Keller-Wood
02/27-03/02		Lectures 3.4 – 3.5 Lectures 3.6	Dr. Keller-Wood Dr. DeRemer
03/06-03/10		Lectures 3.7 Lectures 3.8	Dr. DeRemer Dr. Yuan
03/10 (Fri)	3 - 5 pm	Discussion (Room P2-20)	Dr. Keller-Wood
03/13-03/17		Lectures 3.9 – 3.11	Dr. Yuan
03/20 (Mon)	3 - 5 pm	Discussion (Room P2-20)	Dr. Yuan
03/24 (Fri)	3-5 pm	Exam 3 (Room P2-20)	
Module 4: Gastrintestinal System			
03/27-04/03		Lectures 4.1 – 4.3	Dr. de Lartigue
04/06-04/10		Lectures 4.4 – 4.6	Dr. de Lartigue

04/13-04/17

Lectures 4.7 – 4.8

Dr. de Lartigue

04/20 (Mon) 3-5 pm

Exam 4 (Room P2-20)
