

UNIVERSITY OF PUERTO RICO
SCHOOL OF MEDICINE

PHYSIOLOGY DEPARTMENT

COURSE SYLLABUS

<u>COURSE TITLE</u>	TEACHING ASSISTANTSHIP IN PHYSIOLOGY
<u>COURSE CODE</u>	FISA 8605
<u>CREDIT HOURS</u>	1 CREDIT (SEMESTER) (1Supervised Practice Credit = 2hours weekly)
<u>COURSE DURATION</u>	18 WEEKS
<u>NUMBER OF STUDENTS</u>	MIN.: 1 MAX.: 20
<u>COORDINATOR NAME</u>	DR. CARLOS JIMENEZ
<u>COORDINATOR OFFICE HOURS</u>	TO BE ARRANGED WITH STUDENTS

PREREQUISITES

- **FISA 8601**
- **FISA 8602**
- **Or MPRI7120: Medical Physiology**
- **Approval of written comprehensive examination**

CO-REQUISITE **NONE**

DESCRIPTION

This is a practical course which will provide the doctoral student, who has approved his/her qualify examinations, the academic experience of teaching other junior graduate and medical students in diverse fields of Physiology, under the supervision of a facultative of Physiology. The student will propitiate the discussion of the diverse topics of physiology presented in the course, through case presentations and laboratories elaboration. The student will be in charge of the presentation and delivery of the following topics: Cellular & Membrane Physiology, Neurophysiology, Cardiovascular, Respiratory, Acid-Base, Renal, Gastrointestinal and Endocrinology. The student will also prepare two laboratories to graduate and medical students. The first one deals with

Cardiovascular Physiology, and the second one is focused on Respiratory Physiology.

COURSE OBJECTIVES AND EXPECTED RESULTS

During this course students will

- 1) Apply knowledge and skills developed in physiology subject in the teaching of various topics of physiology to graduate students.**
- 2) Prepare previous designed laboratories of selected topics in physiology for the teaching of various topics of physiology to graduate students.**
- 3) Prepare Power Point presentations in the subject of physiology in order to teach various topics of physiology to graduate students.**
- 4) Discuss doubts about physiology topics with graduate students.**

The students should provide proficiency with the course objectives, that will be measured by analysis, integration and comparison of the above mentioned concepts, that will be evaluated through multiple choice questions, essay exams, term papers, presentations and/or publications.

CONTENT AND TIME DISTRIBUTION

Topics	Time Distribution
Cellular and Membrane Physiology	2 hours
Neurophysiology	4 hours
Cardiovascular	4 hours
Respiratory	4 hours
Acid-Base	3 hours
Renal	3 hours
Gastrointestinal	3 hours
Endocrine	3 hours
Reproductive	2 hours
Cardiovascular Laboratory	4 hours
Respiratory Laboratory	4 hours

36 HOURS

TEACHING STRATEGIES

Supervised Practice

SPECIAL REQUIREMENTS:

Attendance and punctuality

Permission of the professor in charge of the course

PHYSICAL FACILITIES

Classroom

Computer with basic software and Internet access

EVALUATION STRATEGIES

Criteria	Ponderation
Mastering of physiology content in the following topics:	50%
<ul style="list-style-type: none">• Cellular and Membrane Physiology• Neurophysiology• Cardiovascular• Respiratory• Acid-Base• Renal• Gastrointestinal• Endocrine (Reproductive included)• Cardiovascular Laboratory• Respiratory Laboratory	
Power Point Presentations	30%
Laboratory Preparation	16%
Assistance and Punctuality	04%
	100%

GRADING SYSTEM

- This course will be graded **Approved** or **Not Approved**
- **A minimum of 70% is required in order to approve this course.**
- Students with a health condition or situation that, according to the law, makes them eligible for reasonable accommodation have the right to submit a written application to the Dean, Associate Dean or Assistant Dean for Students Affairs of their Faculty, according to the procedure established in the document **Submittal Process for Reasonable Accommodation of the Medical Sciences Campus**. This document may be obtained at the Deanship of the Dean for Student Affairs of the MSC, at each Faculty, and the MSC web page. The application does not exempt students from complying with the academic requirements pertaining to the programs.

BIBLIOGRAPHY

Reference Books:

1. Physiology (5th edition, by Barnes and Levy, 2004)
2. Medical Physiology (2nd edition, by Rhoades and Tanner, 2003)
3. Human Physiology (8th edition, by Vander, Sherman and Luciano, 2001)
4. Medical Physiology (1st edition, by Boron, and Boulpaep, 2003)

Websites:

1. American Physiological Association website

2. Pubmed (NIH)

REASONABLE ACCOMODATION STATEMENT:

Students with a health condition or situation that, according to the law, makes them eligible for reasonable accommodation have the right to submit a written application to the professor and the dean of their Faculty, according to the procedures established in the document Submittal Process for reasonable Accommodation of the Medical Sciences Campus. A free copy of this document may be obtained at the Office of the Dean for Student Affairs, second floor of the School of Pharmacy building; phone 787-758-2525 ext. 5203. A copy may also be obtained at the Office of the faculty Deans as well as in the MSC web page. The application does not exempt the student from complying with the academic requirements pertaining to the programs of the Medical Sciences Campus.

ACADEMIC INTEGRITY

The University of Puerto Rico promotes the highest standards of academic and scientific integrity. Article 6.2 of the UPR Student Bylaws (Certification JS 13 2009–2010) states that "academic dishonesty includes but is not limited to: fraudulent actions, obtaining grades or academic degrees using false or fraudulent simulations, copying totally or partially academic work from another person, plagiarizing totally or partially the work of another person, copying totally or partially responses from another person to examination questions, making another person to take any test, oral or written examination on his/hers behalf, as well as assisting or facilitating any person to incur in the aforementioned conduct". Fraudulent conduct refers to "behavior with the intent to defraud, including but not limited to, malicious alteration or falsification of grades, records, identification cards or other official documents of the UPR or any other institution." Any of these actions shall be subject to disciplinary sanctions in accordance with the disciplinary procedure, as stated in the existing UPR Student Bylaws.

DISCLAIMER: The above statement is an English translation, prepared at the Deanship of Academic Affairs of the Medical Sciences Campus, of certain parts of Article 6.2 of the UPR Student Bylaws "Reglamento General de Estudiantes de la Universidad de Puerto Rico", (Certificación JS 13 2009-2010). It is in no way intended to be a legal substitute for the original document, written in Spanish.