

UNIVERSITY OF PUERTO RICO  
MEDICAL SCIENCES CAMPUS  
SCHOOL OF MEDICINE

PHYSIOLOGY DEPARTMENT

COURSE DESCRIPTION

COURSE TITLE: **PROBLEMS IN PHYSIOLOGY IV**

COURSE CODE: **FISA 8552**

CREDIT HOURS: **3 CREDITS (54 HOURS)**

COURSE DURATION: **18 WEEKS**

NUMBER OF STUDENTS: **MIN.: 1      MAX.: 5**

COORDINATOR NAME: **STAFF**

COORDINATOR OFFICE HOURS: **TO BE ARRANGED**

COORDINATOR OFFICE: **N/A**

COURSE HOURS: **TO BE ARRANGED (3.0 HRS. /WEEK)**

WHEN WILL BE OFFERED:    \_\_\_ QUATERLY             X  SEMESTER  
   \_\_\_ YEAR                    \_\_\_ SUMMER

PREREQUISITE: **FISA 8601; FISA 8602**

COURSE JUSTIFICATION: **Modern biology frequently provides new discoveries in the various areas of physiology that are not included in textbooks. Therefore, there is a need to have a course designed to develop in the graduate student new knowledge in the areas of interest via experiences involving seminars, evaluation of the literature, discussion of scientific papers, and related laboratory activities.**

COURSE DESCRIPTION: Special topics assigned for laboratory work, conferences, and lectures.

This course offers the opportunity to examine recent information in the various areas of physiology and supplement that provided in the literature. New advances in physiology will be discussed in detail. Students will pick topics of their interest to research and present as a seminar or group discussion. Students will integrate basic concepts, theories, discuss methodologies and research strategies. All participating students are expected to read background information in advance and to actively participate in class discussions. Laboratory exercises may be integrated to the course depending on the topic of discussion.

COURSE OBJECTIVES AND EXPECTED RESULTS:

1. To facilitate the development of skills to research the literature and access current scientific information.
2. To develop expertise that will enable the student to critically review the literature and extract knowledge that will be applicable to the student's research interests.
3. To develop skills that will enable the student to thoroughly review a scientific topic.

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.

COURSE TOPICS AND TIME DISTRIBUTION:

To be determined by the interests and number of students.

TEACHING STRATEGIES:

Lectures, seminars, group discussions, independent study.

ESSENTIAL REQUIREMENTS

**Attendance**

EVALUATION STRATEGIES:

Written report	25%
Oral presentation	25%
Laboratory work	<u>50%</u>
	100%

EVALUATION SYSTEM:

90-100 % = A  
80-89 % = B

70-79 % = C  
<69 % = F

BIBLIOGRAPHY:

**The Instructor will assign recent articles from the literature.**

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.***