

**Florida International University  
College of Arts and Sciences**

<b>COURSE NUMBER</b>	<b>PCB 3702 U01</b>
<b>COURSE TITLE</b>	<b>Intermediate Human Physiology</b>
<b>PLACEMENT</b>	Spring 2017
<b>COURSE CREDITS</b>	3
<b>CLOCK HOURS</b>	Tuesdays & Thursdays 5:00PM - 6:15PM
<b>ROOM</b>	Chem & Physics 145
<b>FACULTY</b>	Dr. Melvin Rodriguez, MD <a href="mailto:Merodrig@fiu.edu">Merodrig@fiu.edu</a> OFFICE Hours: TBA or by appointment ONLY

**COURSE DESCRIPTION**

In Intermediate Human Physiology (PCB 3702) students will understand the function of the main physiological systems and their integration and interaction in the human body. Students will learn how to collect and interpret relevant information in order to develop logical ways of dealing with problems associated with the function and control of physiological systems. Although some medical examples will be used to examine what happens to a system when one or more components are not functioning correctly, this is not a course in medical physiology.

**COURSE OBJECTIVES**

Upon completion of this course, the student will be able to:

- ❖ understand how major organ system works and how these systems are interrelated within the human body

**TENTATIVE LECTURE SCHEDULE\***

<b>JAN 10</b>	Course Introduction
<b>JAN 12</b>	McGraw-Hill Connect Tutorial/Registration
<b>JAN 17</b>	Chapter 7: The Nervous System-Neurons and Supporting Cells
<b>JAN 19</b>	Chapter 7: The Nervous System- Electrical Activity/Synaptic Transmission
<b>JAN 24</b>	Chapter 7: The Nervous System- Neurotransmitters
<b>JAN 26</b>	Chapter 8: The Central Nervous System- Brain/Cerebrum
<b>JAN 31</b>	Chapter 8: The Central Nervous System – Brain Stem- <b>ONLINE QUIZ #1</b>
<b>FEB 2</b>	Chapter 8: The Central Nervous System- Spinal Cord and Tracts
<b>FEB 7</b>	<b>Exam 1</b>

\*Subject to change

<b>FEB 9</b>	Chapter 9: The Autonomic Nervous System-Parasympathetic/Sympathetic Function
<b>FEB 14</b>	Chapter 9: The Autonomic Nervous System- Neurotransmitter/Receptor Mediation
<b>FEB 16</b>	Chapter 10: Sensory Physiology
<b>FEB 21</b>	Chapter 12: Muscle – <b>ONLINE QUIZ #2</b>
<b>FEB 23</b>	Chapter 12: Muscle
<b>FEB 28</b>	<b>EXAM 2</b>
<b>MAR 2</b>	Chapter 13: Blood, Heart, & Circulation- Structure of the Heart
<b>MAR 7</b>	Chapter 13: Blood, Heart, & Circulation- Cardiac Cycle
<b>MAR 9</b>	Chapter 13: Blood, Heart, & Circulation- Systemic Blood Vessels
<b>MAR 14</b>	<b>SPRING BREAK</b>
<b>MAR 16</b>	<b>SPRING BREAK</b>
<b>MAR 21</b>	Chapter 14: Cardiac Output, Blood Flow & Blood Pressure – <b>ONLINE QUIZ #3</b>
<b>MAR 23</b>	Chapter 14: Cardiac Output, Blood Flow & Blood Pressure
<b>MAR 28</b>	<b>EXAM 3</b>
<b>MAR 30</b>	Chapter 16: Respiratory Physiology- Lung Structure/Ventilation
<b>APR 4</b>	Chapter 16: Respiratory Physiology- Gas Exchange and Regulation
<b>APR 6</b>	Chapter 16: Respiratory Physiology- Acid/Base Pulm Regulation
<b>APR 11</b>	Chapter 17: Physiology of the Kidneys- Structure and Function
<b>APR 13</b>	Chapter 17: Physiology of the Kidneys – Fluid Regulation- <b>ONLINE QUIZ #4</b>
<b>APR 18</b>	Chapter 17: Physiology of the Kidneys- Kidney Blood Pressure/pH Control
<b>APR 20</b>	<b>EXAM 4</b>

**All PowerPoint Presentations will be available on Blackboard**

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## TEACHING STRATEGIES

- Active NOT Passive learning
- Concept mapping and stepwise flowcharts
- Visual learning through slides figures and animations
- Act as facilitator for learning new material
- Self-directed learning activities

## EVALUATIONS / GRADING POLICY:

**20%: QUIZZES** 4 Quizzes worth 5% each quiz for a total of 20% on McGraw-Hill Connect

Online registration instructions:

Go to the following web address and click the “**register now**” button:

<http://connect.mheducation.com/class/m-rodriquez-master-section>

If you have trouble with McGraw-Hill Connect registration, please contact Customer Support at <http://bit.ly/StudentRegistration>.

**80% Exams:** There will be four multiple-choice exams administered this semester, **of which all scores will be calculated for the final grade.**

The grading scale is as follows: **A=100-90, B=89-80, C=79-70, D=69-60, F=59-0.**

*There will be no make-up exams (**MISSED EXAMS WILL RESULT IN A ZERO SCORE**) administered unless circumstances beyond the student’s control arise and are **IMMEDIATELY** accompanied by the appropriate documentation:*

- 1) *Death in immediate family member requires official bereavement statement.*
- 2) *Student/immediate family member with acute/terminal illness requires official hospital/clinic notification.*
- 3) *Traffic accident requires official accident report.*
- 4) *Jury duty requires county clerk summons.*
- 5) *Military duty.*

*The aforementioned will be taken into consideration or, if applicable, allow students to request an «Incomplete » grade. Candidates for grades of «Incomplete » include those students that have completed 60% of the course work satisfactorily (C grade or higher) and cannot justifiably finish the course (pre-planned vacation/business trips do not constitute a serious interruption).*

## PLTL-

PCB 3702 students have the option of participating in the Peer-Led Team Learning (PLTL) sessions. Registered students will have weekly meetings with a PLTL leader along with a small group of students. The PLTL leader’s role as facilitator will guide students through assigned activities that can *only* enhance comprehension of human intermediate physiology. **If you decide to fully participate in PLTL, your PLTL score will be converted to 100 points and averaged into your **LOWEST EXAM SCORE ONLY** (LOWEST EXAM SCORE + 100 PLTL POINTS/2 = ADJUSTED NEW LOWEST EXAM SCORE)** All students are encouraged to utilize the PLTL resources to the utmost; however, students opting not to fully participate in PLTL will not accrue any semester points (lowest scores are not dropped in this course).

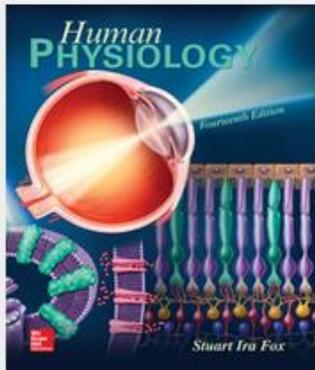
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***If any of the preceding information elicits a conflict of interest, you are strongly urged to DROP the course.***

**REQUIRED TEXTBOOK:**

ISBN-13: 978-0077836375

ISBN-10: 0077836375



**Human Physiology**  
Fox, 14e

**Tips on the successful completion of this course:**

1. Attendance is **NOT** mandatory, but **HIGHLY** recommended! **Poor attendance** can only result in **poor grades!**
2. Make emphasis on careful note-taking and pre-reading skills.
3. In the case of missed lecture days or impending absences, students are **responsible** for obtaining lecture notes and **in-class announcement information** from **fellow classmates** (do not summon the instructor for this).
4. All electronic communication equipment should be silenced (ie. cell-phones), so as to not encumber the learning and thinking process of others.
5. Disruptive behavior during lectures/exams is deemed inappropriate and will not be tolerated.

**Cheating policy:** Cheating (ie. possession of crib sheets/notes, glaring at another's paper, electronic devices –cell phones/ipads-) during any of the administered exams is a direct violation of FIU's student conduct code and will not be tolerated in this course. The instructor will be proctoring exams diligently; violators will either receive a failing semester grade or be subjected to university administrative action. This policy adheres to the following: *“Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed*

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*by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.”*

**Please be advised that the course syllabus schedule of events is subject to change at the instructor’s discretion.**

***Best of luck to all and have a pleasant semester!***