



Centro Universitario Internacional



BIO 209 Anatomy & Physiology II

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Office Hours: Wed. & Fri. 10:30-13:30

Course Information:

Fall 2016

Eduardo Domínguez, PhD

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Office Hours: Fri. 09:30-10:30

Course Information:

Fall 2016

Course Description

This is the second part of Human Anatomy & Physiology. During this course you will study the fundamentals on human body structure, its proper functions and some disorders using an organ-system approach. It is crucial for you to understand how cells and organs are coordinated within an integrated human physiology. Closely-related systems as endocrine, cardiovascular, immune, respiratory, urinary, or digestive system develop an overall coordinated physiology.

The laboratory portion of this course is integrated with the lecture portion and will reinforce many of the concepts presented in discussions and in the text. It will be accomplished through organ dissections, model studies and simulation labs.

We will also examine how certain system malfunctions may affect the delicate physiology balance (homeostasis), and how human body compensates to maintain itself..

Prerequisites

Anatomy and Physiology I

Course Goals and Methodology

1. To understand homeostasis and how different systems participate in its maintenance.
2. To identify the system malfunction main symptoms.
3. To anticipate consequences of system malfunction on homeostasis and the existing physiological mechanisms to restore it.
4. To integrate different sorts of information in order to solve biological problems;

Required Texts

Hole's Human Anatomy and Physiology, 14th Edition. Shier, Butler, Lewis, McGraw Hill., 2016.

Grading:

FOUR equally weighted exams: 70%

Assignments: 20%

Project: 10%

Total 100%

- There will be no extra credit work to improve your grade.
- There will be no make up labs or practical. Any medical emergency excuse must be followed by a detail written explanation of the problem from a health care professional. All documents must be presented to me on the day of your return to class.
- Late assignments are not accepted for grades in this course. Any medical emergency excuse must be followed by a detail written explanation of the problem from a health care professional. All documents must be presented to me on the day of your return to class.

Exams missed due to an excused (medical) absence must be made up within a week of returning to classes.

It is each student's responsibility to be informed of exam dates, paper due dates, required course activities, etc. before making any travel plans during the semester.

Student Expectations:

1. To show integrity and act in a professional and respectful manner at all times;
2. To attend and actively participate in scheduled lecture and lab sessions;
3. Prepare each session in advance (pre-session tasks);
4. Ability for self-organization: timing, meeting deadlines, perform homework and assignments, punctuality

Communications and announcements

Unless stated otherwise, all course announcements will be posted online in Virtual Campus (Blackboard). This is to include, but is not limited to: assignments, deadlines, exam calls, homework, and changes in session schedule.

Electronic communications between students and instructors are also handled in Virtual Campus.

General Course Policies

Please keep your cell phones on silent during class and avoid all use except for a calculator. Strictly no food to be consumed in class.

Attendance will be taken during the first 10-15 minutes of class and as part of your participation grade I recommend that you come prepared for in-class discussion and/or bring up to date lecture-related articles from magazines, newspapers or any other source that you wish to share with your classmates.

Midterm and Final Exam dates will not be changed under any circumstances.

Attendance and Punctuality

Attendance is mandatory. More than 3 unexcused absences will result in the lowering of the final grade. Students with more than 2 such absences may not challenge the final grade received. Punctuality is required – tardiness will be penalised by 0.5 (over 15 mins) or 1 absence (over 30mins).

Academic Dishonesty

Academic integrity is a guiding principle for all academic activity at Pablo de Olavide University. Cheating on exams and plagiarism (which includes copying from the internet) are clear violations of academic honesty. A student is guilty of plagiarism when he or she presents another person's intellectual property as his or her own. The penalty for plagiarism and cheating is a failing grade for the assignment/exam and a failing grade for the course. Avoid plagiarism by citing sources properly (using footnotes or endnotes and a bibliography).

Students with Disabilities

If you have a disability that requires special academic accommodation, please speak to your professor within the first three (3) weeks of the semester in order to discuss any adjustments. It is the student's responsibility to provide the International Center with documentation confirming the disability and the accommodations required (if you have provided this to your study abroad organization, they have most likely informed the International Center already but please confirm).

Behavior Policy

Students are expected to show integrity and act in a professional and respectful manner at all times. A student's attitude in class may influence his/her participation grade. The professor has a right to ask a student to leave the classroom if the student is unruly or appears intoxicated. If a student is asked to leave the classroom, that day will count as an absence regardless of how long the student has been in class.

Semester Schedule

| Date | Lecture | Lab |
|---------|--------------------------------------|------------------------------|
| Sept 15 | Blood 1 (Chapter 14) | |
| Sept 16 | Blood 1 (Chapter 14) | |
| Sept 20 | Lymphatic System & Immunity 1(Chpt | |
| Sept 22 | Lymphatic System & Immunity 2(Chpt | Blood cells and serum types |
| Sept 23 | Endocrine System 1 (Chapter 13) | |
| Sept 27 | Endocrine System 2 (Chapter 13) | |
| Sept 29 | Endocrine System 3 (Chapter 13) | Immune reactions |
| Sept 30 | Midterm 1 | |
| Oct 4 | Cardiovascular System 1 (Chapter 15) | |
| Oct 6 | Cardiovascular System 2 (Chapter 15) | Simulation of AP and EKG |
| Oct 11 | Cardiovascular System 3 (Chapter 15) | |
| Oct 13 | Cardiovascular System 4 (Chapter 15) | Heart Physiology |
| Oct 18 | Respiratory System 1 (Chapter 19) | |
| Oct 20 | Respiratory System 2 (Chapter 19) | Cardiov. effects of exercise |
| Oct 25 | Respiratory System 3 (Chapter 19) | |
| Oct 27 | EXAM 2 | Spirometry. Lung capacity |
| Nov 3 | Renal System 1 (Chapter 20) | Project Presentations |
| Nov 8 | Renal System 2 (Chapter 20) | |
| Nov 10 | Renal System 3 (Chapter 20) | Kidney Anat. and Physiol |
| Nov 15 | Digestion 1 (Chapter 17) | |
| Nov 17 | Digestion 2 (Chapter 17) | Digestive Anat. and Physiol |
| Nov 22 | EXAM 3 | |

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| Nov 24 | Metabolism 1 (Chapter 18) | Project Presentations |
| Nov 29 | Metabolism 2 (Chapter 18) | |
| Dec 1 | Fluid Elec 1 (Chapter 21) | Osmosis |
| Dec 13 | Fluid Elec 2 (Chapter 21) | |