



University of Nicosia, Cyprus

Course Code BIOL-206	Course Title Human Anatomy and Physiology II	ECTS Credits 6
Department Life and Health Sciences	Semester Spring	Prerequisites BIOL-205 Hum.Anatom.Physiol.I
Type of Course Required	Field Biology	Language of Instruction English
Level of Course 1 st Cycle	Year of Study 2 nd	Lecturer Dr. Edna Yamasaki-Patriciou
Mode of Delivery face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

In this second course of Human Anatomy and Physiology students will learn about the remaining body systems (blood; the cardiovascular, digestive system and metabolism and the urinary, endocrine and reproductive systems), with emphasis on the interrelationships between structure and function at the gross and microscopic levels. Students will also practice basic dissection skills and develop further skills in physiology measurements. The main objectives of this course are to:

- Make students aware of the appropriate terminology related to anatomy and physiology of these body systems.
- Demonstrate and explain their function as related to anatomical structure through the dissection of animal parts, use of anatomical models and charts and comparisons of the histology profiles of tissues and organs.
- Examine the interrelationship between structure and function in body homeostasis through discussion of case studies and computer simulations.
- Provide the opportunity to develop basic dissection skills and analytical skills on computer simulated body physiology interrelationships.

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Use the appropriate terminology to recognize and describe the anatomical structure and parts of body organ systems (blood and cardiovascular, digestive system and metabolism, urinary, endocrine reproductive).
2. Distinguish and explain the interrelationship and integrative functions of these systems.

3. Explain their interrelationships in maintaining homeostasis and associate body organ system dysfunction with pathophysiological events and diseases.
4. Demonstrate basic skills in dissection, in examining histological specimens, assembling anatomical models and interpreting graphs of anatomical and physiological data.
5. Discuss the importance of respecting the human body and its functions for healthy living.

Course Contents:

1. Endocrine System
LAB: Endocrine Glands
2. Blood
LAB: Blood
3. Heart
LAB: Heart
4. Blood Vessels and Circulation
LAB: Blood vessels
5. Lymphatics and Immunity
LAB: The lymphatic system
6. Respiratory System
LAB: Anatomy of the Respiratory System
7. Digestive System
LAB: Anatomy of the Digestive System
8. Metabolism
LAB: Dissection GI tract and Accessory Organs
9. Urinary System
LAB: Anatomy of the Urinary System
10. Reproductive System
LAB: Anatomy of the Reproductive System

Learning Activities and Teaching Methods:

Lectures; Laboratory Sessions/Demonstration; Tutorials, Cooperative and independent learning

Assessment Methods:

Homework, Projects, Continuous Evaluations with Practical Exercises and Assignments, Final Examination

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
1. Frederic H. Martini, Judi L. Nath,.	Fundamental Principles of Anatomy and Physiology	Benjamin Cummings	2008, 8 th ed	ISBN-10: 0321505719

2. Elaine N. Marieb, Susan J. Mitchell	Human Anatomy and Physiology Laboratory Manual	Benjamin Cummings	2008, 8 th ed	ISBN 10: 0805372644
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Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Levy Matthew, Koeppen, Bruce Stanton, Bruce	Berne and Levy Principles of Phsyiology	Elsevier	2005	ISBN-13: 978-0- 323-03195-0