

Introduction to Anatomy & Physiology

AS.020.375.11

COURSE INFORMATION

Year: Summer 2017 (05/30/17-06/30/17)

Time: MWF 8:45-11:00 AM

Place: Krieger 302

Course Description:

An introduction to human anatomy and physiology. Students should gain enough background in anatomy and its relationship to biological systems to prepare for initial training in medical school. However, this class is not a substitute for anatomy/physiology courses in medical school. Body systems covered: integumentary, skeletal, muscular, cardiovascular, nervous, lymphatic, respiratory, digestive, renal, and reproductive. Lectures will cover descriptive and functional anatomy; and should leave students with a better understanding of anatomical terminology and the relationship of structure to biological function within the human body. Additionally, students will gain perspective on human disease as they study the anatomical and functional basis of clinical symptoms.

Prerequisites or Co-Requisites: AS.020.151

INSTRUCTOR INFORMATION

Instructors: Dorhyun Johng
Marcos Iglesias Lozano, DVM, PhD

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Office Hours: By appointment

Best way to Reach Me: Email

COURSE MATERIALS

Textbook Information: Essentials of Anatomy and Physiology, Valerie C. Scanlon and Tina Sanders, F.A. Davis Company; 7th Ed. (November 25, 2014)

Computer Resources: E-reserves on Blackboard

LEARNING OBJECTIVES

1. Learn anatomical terms to effectively communicate information regarding human body systems.
2. Identify anatomical structures and their locations.
3. Understand the anatomy and physiology of the human body systems and the interrelationships among the body systems.
4. Describe the molecular and cellular processes that occur in an organ for it to function.
5. Apply the anatomical and physiological knowledge to predict the cellular and molecular bases of human diseases.

COURSE MODE

Class content will be delivered via PowerPoint lectures. PowerPoint files will be posted prior to each lecture. Each class will include two 45-minute lecture sessions. The rest of the class time will be devoted to various interactive activities such as review questions, case studies and quizzes. Students will also engage in group discussions on topics related to the lecture.

GRADING POLICY

- 3 closed-book quizzes 30%
- 2 Short Reports 25%
- Written Reflections 20%
- Group Presentation 10%
- Class Attendance 10%
- In-class Participation 5%
- Grading Scale

Letter Grade	Percentage Points	GPA Points	S/U
A+	100 - 97	4.0	S
A	96.9 - 93	4.0	
A-	92.9 - 90	3.7	
B+	89.9 - 87	3.3	
B	86.9 - 83	3.0	
B-	82.9 - 80	2.7	
C+	79.9 - 77	2.3	
C	76.9 - 73	2.0	
C-	72.9 - 70	1.7	
D+	69.9 - 67	1.3	U
D	66.9 - 63	1.0	

- Readings: Students are encouraged to do the assigned reading prior to each lecture to reinforce their learning.
- **Attendance is mandatory.** 10% of the grade comes from attendance. **Notify the instructors ahead of time** if you cannot attend the class due to pre-arranged events. **Documentation should be presented if absence is due to a medical emergency.** Make-up quizzes will be held at the discretion of the instructor.
- Report Guidelines: Please see the guidelines on Blackboard under Syllabus.
- Report Submission: Submit **printed reports (double-spaced)** in class on the due date.
- Written reflections: After each class, please post the following 3 questions on Blackboard.
 - What was the most important thing you learned today?
 - What was the most confusing topic today?
 - What important question remains unanswered?
- Group Presentations: Please see the guidelines on Blackboard under Syllabus.

STATEMENT ON ACADEMIC INTEGRITY

Because the strength of the university depends on academic and personal integrity, the Course Instructors and Teaching Assistant of this course expect students to follow the code of ethics established by undergraduate students of Johns Hopkins University in 1975. In this course you must be honest and truthful. Ethical violations include cheating on exams, plagiarism, reuse of assignments, improper use of the Internet and electronic devices, unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonesty, and unfair competition. Ignorance of these rules is not an excuse. The university will punish cheaters with failure on an assignment, failure in a course, permanent transcript notation, suspension, and/or expulsion. Offenses may be reported to medical, law or other professional or graduate schools when a cheater applies. In addition, the specific ethics guidelines for this course are: Quizzes are closed book.

Report any violations you witness to the instructor. You may consult the associate dean of students and/or the chairman of the Ethics Board beforehand. See the guide on Academic Ethics for Undergraduates and the Ethics Board web site (<http://ethics.jhu.edu>) for more information.

COURSE CALENDAR

Week	Date	Topic	Reading	Instructor	
1	05/31 W	1: Organization/Plan of the body; Cell biology review	Chapter 1	Dee	
	06/02 F	2: Tissues; The Integumentary System	Chapter 4-5	Dee	Report 1 Topic Due; Presentation Topic Due
2	06/05 M	3: Skeletal System	Chapter 6	Dee	
	06/07 W	4: Muscular System Presentations (Group 1, 2)	Chapter 7	Marcos	
	06/09 F	5: The Nervous System	Chapter 8	Dee	Quiz 1; Report 1 Due
3	06/12 M	6: Heart & Vascular System	Chapter 11,13	Dee	Report 2 Topic Due
	06/14 W	7: The Respiratory System Presentations (Group 3, 4)	Chapter 15	Marcos	
	06/16 F	8: The Digestive System	Chapter 16	Dee	Quiz 2
4	06/19 M	9: Metabolism	Chapter 17	Dee	
	06/21 W	10: The Lymphatic System & Immunology	Chapter 14	Marcos	Quiz 3
	06/23 F	11: The Endocrine System Presentations (Group 5, 6)	Chapter 10	Dee	
5	06/26 M	12: The Urinary System	Chapter 18	Dee	Report 2 Due
	06/28 W	13: The Reproductive System	Chapter 20	Marcos	
	06/30 F	14: Review; Presentations (Group 7, 8)		Dee	

Quiz 1: Lecture 3 & 4

Quiz 2: Lecture 6 & 7

Quiz 3: Lecture 8 & 9

Report 1 Topic: Integumentary System

Report 2 Topic: Nervous System