

Course Director: Jason U. Tilan, PhD

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Section 01: Synch Sessions to meet Tuesday and Thursday 1100 EDT

Section 02: Synch Sessions to meet Tuesday and Thursday 1800 EDT

Required Materials:

(1) Mastering A&P: www.masteringaandp.com

An access code for this web resource is required. This features an etext for Fundamentals of Anatomy and Physiology, 11th Ed., Editors: Martini, Nath, and Bartholomew. Additional features include online quizzes, animations, exercises for anatomy labs, and graded review questions. The course ID is **xx**, which you can sign into with your access code. A printed version of the text is not required, but may be optionally purchased.

(2) eScience Custom Laboratory Kit: www.esciencelabs.com

This kit will provide you with the opportunity to gain tactile lab experience at home. Following purchase, the kit will be delivered to your home. You will receive additional online support including instructional videos, a Virtual Human body, and other digital tools via the student portal. You will have additional assessments such as pre- and post-lab questions.

Course Description and Objectives:

Course Description

Human Anatomy & Physiology II is the second of a two-course sequence that covers the anatomical and physiological aspects of the human body. These courses provide students with a foundation for each major organ system's structure and function, requiring the study of these systems from both a gross and detailed perspective. In this second installment students will bring together principles of structure and function to understand individual and collective contributions of the following systems of physiology to the human body: endocrine, reproductive, blood, immune, cardiovascular, respiratory, urinary and renal, and gastrointestinal. Laboratory will consist of the application of principles of structure and function via hands-on exercises in a system-specific manner.

Objectives

1. Gain a strong foundation of the anatomy of major organ systems
2. Describe the fundamental physiological concepts of these major organ systems
3. integrate learned concepts in order to understand homeostatic mechanisms
4. Develop an understanding of the scientific approach
5. Engage in critical and creative thinking

Course Evaluation:

- (1) Exams I - III:** Each of the three exams include 75 multiple choice questions related to the material covered during one the 3 units of the course. These exams are non-cumulative. Exam questions will come from both recorded lectures and laboratory exercises. Exams will be proctored during Sync sessions.
- (2) Lab exercises:** Throughout the semester you will be required to complete a variety of graded lab exercises. The total value for lab exercises is 60 points.
- (3) Participation and attendance:** Participation and attendance will be assessed based on completion of knowledge check questions, and attendance and participation during online synch sessions. See details on the following page. The total value for participation and attendance is 15 points.

Grades will be calculated based on the percentage of points earned out of a possible *300.

*[3x Exams, 75pts each (225pts) + Lab Exercises, 60pts + Participation/attendance, 15pts = 300]

Grades will be determined according to the following guidelines:

Letter Grade	Range	Letter Grade	Range
A	93-100	C+	77-79.9
A-	90-92.9	C	73-76.9
B+	87-89.9	C-	70-72.9
B	83-86.9	D+	67-69.9
B-	80-82.9	D	60-66.9
		F	< 60

NB: In general, grades are not rounded up in this course.

- Students must present documentation of illness or family emergencies to receive permission to reschedule exams. Rescheduling of exams will be considered on a case-by-case basis for non-emergency reasons and are not guaranteed to be granted. If rescheduling is granted this may result in a penalty assessed, e.g., 10% deduction in overall exam grade for taking the exam one day later.
- There are NO opportunities for extra credit. No exceptions to this policy.

Synchronous Sessions:

These live sessions (“class”) will be conducted in a seminar format with the primary role of the synchronous session leader as one to facilitate discussion. You are expected to attend class having reviewed the material (asynchronous lectures) beforehand and be able to contribute to the discussion at hand. In doing so, synchronous sessions serve as an opportunity for you to gain further clarification on the topics covered in the asynchronous lectures and apply the material accordingly. It is not designed to be a second lecture on the material. Your ability to contribute to and enhance the level of discussion in your sync session on a weekly basis will account for your participation, and be applied toward your overall grade.

Slides presented during asynchronous and synchronous sessions will be made available beforehand. Mastering the material in this course will require time with slides, recorded lectures, reading the textbook, completing lab exercises, and participating in the synch sessions.

Attendance:

As noted above, participation will contribute to your overall grade. If you plan to miss class, then please notify your synchronous session lead and course director via email at least 24 hours in advance. If you have an emergent case regarding attendance, then please direct your email to the course director, CC'ing your synchronous session lead with appropriate notice. Documentation from a healthcare provider may be requested.

Georgetown University Honor Code Statement:

As signatories to the Georgetown University Honor Pledge, and indeed simply as good scholars and citizens, you are required to uphold academic honesty in all aspects of this course. You are expected to be familiar with the letter and spirit of the Standards of Conduct outlined in the Georgetown Honor System and on the Honor Council Website. As faculty, I too am obligated to uphold the Honor System and will report all suspected cases of academic dishonesty.

Schedule:

Section I				
Week	Topics	Assigned Reading	Lab Activity	Synch Session
1	Endocrine System	Chapter 18	1: Histology	x
1	Reproductive System	Chapter 28	2: Histology and Virtual Anatomy	
1	Blood	Chapter 19	3: Blood Typing	
2	Immune System	Chapter 22	4: Histology and Virtual Anatomy	x
2	EXAM 1			x

Section II				
Week	Topics	Assigned Reading	Lab Activity	Synch Session
3	Cardiac System	Chapter 20	5a: Histology and Virtual Anatomy	
3	Vascular System	Chapter 21	5b: Histology, Virtual Anatomy, BP	x
4	Respiratory System	Chapter 23	6: Histology, Virtual Anatomy, Lung Mechanics, and Peak Flow	
4	Review			x
4	EXAM 2			x

Section III				
Week	Topics	Assigned Reading	Lab Activity	Synch Session
5	Urinary System	Chapter 27 and 26	7: Virtual Anatomy, Filtration, Urinalysis, Urine pH, Breathing and Acid-Base Balance	
5	Urinary System	Chapter 27 and 26		x
6	GI System	Chapter 24	8: Histology, Virtual Anatomy, Swallowing, Digestive Enzymes, Reducing Sugars, Starch, and Protein	
6	GI System	Chapter 24		x
6	EXAM 3			x