

Course Director: Jason U. Tilan, PhD Email: [Jason.Tilan@georgetown.edu](mailto:Jason.Tilan@georgetown.edu)

Office Hours: Monday 1100-1300 EDT Synchronous (Sync) Sessions: Tuesday 1900- 2100 EDT

### Required Materials:

(1) **Mastering A&P:** [www.masteringaandp.com](http://www.masteringaandp.com)

An access code for this web resource is required. This features an etext for Fundamentals of Anatomy and Physiology, 11<sup>th</sup> Ed., Editors: Martini, Nath, and Bartholomew. )(ISBN: 978-0134509181) 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](http://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

Lectures (Asynchronous): Lectures will be delivered via slide- based video presentations that will be made available to you on Canvas. Although these slides will provide you with the framework for each lecture, truly mastering the material will require you to read the textbook and attend class (sync session) regularly. Information presented on the slides are condensed and lectures will elaborate upon these points.

Laboratories: Laboratories will supplement and expand upon lecture topics. Relevant laboratory materials, handouts, presentations, assignments, videos, etc. will be made available to you through Canvas and the manufacturer's website noted above.

Piazza: Asynchronous online discussion will be facilitated via this platform embedded into Canvas.. It is catered to getting you help fast and efficiently from classmates and the instructor. You will need to 'sign in' the first time you use it only.

**Course Evaluation:**

- (1) Exams I - III: Each of the three exams will be non-cumulative. Exam questions will come from both asynchronous lectures, sync sessions, and laboratory exercises. Exams will be proctored during sync sessions.
  - a. \*Practice quizzes will be posted on Canvas in advance of each of the 3 exams. These will not factor into your overall grade.
- (2) Lab exercises: Throughout the semester you will be required to complete a variety of graded lab exercises.
- (3) Participation and attendance: Participation and attendance will be assessed based on completion of knowledge check questions, and attendance and participation during sync sessions. See details on the following page.

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 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.

**Sync Sessions:**

These live sessions ("class") will be conducted in a seminar format with the primary role of the sync session instructor 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, sync 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, asynchronous lectures, reading the textbook, completing lab exercises, and participating in sync sessions.

**Attendance:**

As noted above, participation will contribute to your overall grade. If you plan to miss class, then please notify your instructor via email at least 24 hours in advance. Documentation from a healthcare provider may be requested.

**Georgetown University Honor Code Statement:**

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 am obligated to uphold the Honor System and will report all suspected cases of academic dishonesty.

**Statement on Inclusion:**

In this classroom we support diversity of thoughts, perspectives, and experiences. Further we will honor your identity (including race, gender, class, sexuality, religion, ability, etc.). We invite and encourage people to share the names and pronouns they prefer.

**Statement on Intellectual Property:**

The materials used in Georgetown University courses represent the intellectual property of course instructors and may not be disseminated or reproduced in any form for public distribution without the written permission of the course instructor. Course Materials include all written or electronic documents, including syllabi, current and past examination questions/ answers, and presentations such as lectures, videos, PowerPoints, etc., provided by a course instructor. Course Materials may only be used by students enrolled in the course for academic (course-related) purposes.

**Title IX Syllabus Statement (endorsed by the Faculty Senate):**

Georgetown University and its faculty are committed to supporting survivors and those impacted by sexual misconduct, which includes sexual assault, sexual harassment, relationship violence, and stalking. Georgetown requires faculty members, unless otherwise designated as confidential, to report all disclosures of sexual misconduct to the University Title IX Coordinator or a Deputy Title IX Coordinator. If you disclose an incident of sexual misconduct to a professor in or outside of the classroom (with the exception of disclosures in papers), that faculty member must report the incident to the Title IX Coordinator, or Deputy Title IX Coordinator. The coordinator will, in turn, reach out to the student to provide support, resources, and the option to meet. [Please note that the student is not required to meet with the Title IX coordinator.]. More information about reporting options and resources can be found on the Sexual Misconduct Website:

<https://sexualassault.georgetown.edu/resourcecenter>.

If you would prefer to speak to someone confidentially, Georgetown has a number of fully confidential professional resources that can provide support and assistance. These resources include:

Health Education Services for Sexual Assault Response and Prevention: confidential email [sarp@georgetown.edu](mailto:sarp@georgetown.edu)

Counseling and Psychiatric Services (CAPS): 202.687.6985 or after hours, call (833) 960-3006 to reach Fonemed, a telehealth service; individuals may ask for the on-call CAPS clinician

More information about reporting options and resources can be found on the [Sexual Misconduct Website](#).

*(Above statement and TIX faculty resources found at:*

<https://sexualassault.georgetown.edu/get-help/guidance-for-faculty-and-staff-on-how-to-support-students/>)

**Title IX Pregnancy Modifications and Adjustments**

Georgetown University is committed to creating an accessible and inclusive environment for pregnant students. At any point throughout their pregnancy students may request adjustments/modifications based on general pregnancy needs or accommodations based on a pregnancy-related complication or medical need. Students may also request accommodations following labor and delivery based on a complication or medical need.

SCS students must complete the [Pregnancy Adjustment Request Form](https://titleix.georgetown.edu/title-ix-pregnancy/student-pregnancy/) (<https://titleix.georgetown.edu/title-ix-pregnancy/student-pregnancy/>) and submit it to the SCS Deputy Title IX Coordinator at [titleixscs@georgetown.edu](mailto:titleixscs@georgetown.edu). Upon receiving the completed form, the Deputy Title IX Coordinator will schedule a meeting with the student to discuss the requested adjustments and implementation process.

More information about pregnancy modifications can be found on the [Title IX at Georgetown University Website](#).

### 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