

BIOL 252: Human Anatomy and Physiology

Dr. Alaina Garland

SPRING 2019 MWF 11:15- 12:05 GSB 200

Human A&P is an advanced course that investigates the form and the function of the human body. You should expect a comprehensive, demanding, and rigorous class in the next semester. The course is composed of three class meetings each week. Most of you will also take the lab (252L). The lab will get into the details of the anatomy of the human body. The course itself will focus on how human physiology follows our basic anatomy, and will cover our twelve body systems. This is NOT a class for passive learners. You are expected to be actively engaged in this course through class discussions, class activities and pre- as well as post-lecture assignments and readings. You are expected to visit peer-mentors routinely. Don't wait. Check in regularly, maybe with a buddy or small group. Form your own study groups too.

For a detailed schedule, please see the documents on Sakai (under "Syllabus").

Prerequisites BIOL 101 and BIOL 101L.

Your Instructor

Dr. Alaina Garland

Office: Wilson 135

Office hours: Check the course Sakai site Sign-up tab

Course Learning Outcomes

At the end of this semester you should be able to:

- Define anatomy and physiology and explain the relationship between structure and function
- Define homeostasis and explain why it is important for proper body functions
- Predict the physiological outcomes of homeostatic imbalances
- Describe the organization of each of the twelve organ systems of the human body
- Integrate the knowledge you gained in different parts of the course
- Apply one's knowledge of human anatomy and physiology to real life examples

Textbook

The textbook comes with a web-based software package called MasteringAP that will be the platform through which you will be quizzed and receive short pre-lecture assignments. The package also includes an interactive eBook. There are also other purchase options of the

textbook. You should have received an email from Chris Kutas with instructions for purchasing the textbook.

Supplemental Instructors and Peer Mentors

Supplemental Instructors and Peer Mentors will post their names and office hours on Sakai during the second week of classes.

Several of our best students who excelled in this class in the past will serve as peer mentors. They will be present in class and assist during class activities and each will offer a weekly hour and a half of one-on-one mentoring session Supplemental Instruction (SI) Twice a week, we will offer supplemental instruction (SI) sessions (days- TBA). The sessions will be led by two undergraduate students who excelled in this class in the past and already served as peer mentors. The SI sessions will allow you to process and actively practice material that was taught in the previous week. Students referred to the SI sessions in the past as one of the most significant tools that improved their learning

Class Attendance

Students are expected to attend and participate in class meetings. Most of the material discussed in lecture will not be found in the textbook. You are responsible for all material and announcements made in lectures. You are also responsible for material covered by your assigned reading and voicethread online lectures (see below).

Assignments

Each week you will have pre-class, in-class, and post-class assignments:

The pre-class assignments will be based on assigned readings from the textbook and in some cases online lectures that you will view via the VoiceThread tool on Sakai. The assignments are accessed via the Mastering AP system.

In-class assignments will include Learning Catalytics (see below) and potentially other activities.

Post-class assignments will include mostly Peerwise assignments (see below).

The due dates for submitting your assignments can be found on the detailed class schedule posted on Sakai under Syllabus. I will NOT send reminders. You are responsible to follow the schedule and submit the assignments on time. You are welcome to complete an assignment late for practice, but it receives a 0. LATE ASSIGNMENTS RECEIVE A 0. PLEASE DO NOT ASK ME TO ACCEPT A LATE ASSIGNMENT. The due date for all assignments is 11:59PM the night before a lecture.

Interactive Educational Tools

Learning Catalytics

During class time, we will use Learning Catalytics (LC), which is an interactive program that will allow you to participate in assignments through your device. LC comes as part of a package when you purchase the Mastering AP and the textbook.

PeerWise

One of your assignments during the semester will be to create multiple choice questions that address the material we learn. Asking questions and evaluate your peers' questions has been shown to be an invaluable tool in developing deep learning. Posting and reviewing questions will be done through an interactive system called PeerWise. Instructions on how to register and how to use PeerWise will be given during the semester.

VoiceThread

In addition to the readings, in some cases the background will be given as mini-lectures that you will access through the VoiceThread tool on Sakai. We will also use this system to cover the Integumentary system and the Respiratory system that will not be covered during class meetings.

Piazza

We will be using an online platform called "Piazza" this semester. You may post any questions that you have about the course to this site at any time and they will be answered by either a fellow student, a mentor, or me. Your questions may be more general and may relate to the course itself or they may be more specific and instead relate directly to content and/or material from class. You should not post anything unrelated to the class. No personal attacks or usage of offensive language will be allowed. No posts that directly give the answers to assignments are allowed. For instance "The answer to #5 is C". That being said, you are allowed to ask questions concerning the assignments, and your classmates are allowed to respond, as long as the conceptual framework is being discussed.

Grading

Your grade for this course will be determined as follows:

3 midterm exams + 1 (non-cumulative) final exam = 21% each = 84%

MasteringAP assignments = 6%

Assignments (PeerWise, Sakai, LC) = 10%

Letter grades will not be assigned for individual exams, only scores. Final letter grades will be assigned based on the total number of points for the entire semester: A (93-100) A- (90-92) B+ (87-89) B (83-86) B- (80-82) C+ (77-79) C (73-76) C- (70-72) D+ (66-69) D (60-65) F (<60)

Your grade will be based on your performance and not on comparing your performance to your peers'. Exam questions will mainly be based on lectures, assigned readings, and pre-class online

lectures. Grades will not round up. B=83, not 82.96. Exams must be taken on the dates indicated during the regular class period; no makeup exams except in special circumstances – i.e. medical or family emergency documented in writing.

All course materials, including your notes and assignments, are covered by the university copyright policy. This means it is illegal and an honor code offense to share your notes or any other course materials with anyone not directly affiliated with this class.

The professor reserves the right to make changes to the syllabus, including due dates and test dates. These changes will be announced as early as possible.

Schedule:

Jan 9 th	W	Introduction to class
Jan 11 th	F	Cells of the Nervous System
Jan 14 th	M	Membrane Potential – Resting and Local
Jan 16 th	W	Action Potential
Jan 18 th	F	Action Potential
Jan 21 st	M	No class
Jan 23 rd	W	Synaptic Activity
Jan 25 th	F	Synaptic Activity
Jan 28 th	M	Brain
Jan 30 th	W	Brain
Feb 1 st	F	Brain
Feb 4 th	M	Sensation
Feb 6 th	W	Sensation
Feb 8 th	F	Exam 1
Feb 11 th	M	Endocrine
Feb 13 th	W	Endocrine
Feb 15 th	F	Endocrine
Feb 18 th	M	Skeletal
Feb 20 th	W	Skeletal
Feb 22 nd	F	Skeletal
Feb 25 th	M	Muscular
Feb 27 th	W	Muscular

March 1 st	F	Muscular
March 4 th	M	Muscular
March 6 th	W	Muscular
March 8 th	F	Exam 2
March 11 th	M	No class
March 13 th	W	No class
March 15 th	F	Cardiovascular
March 18 th	M	Cardiovascular
March 20 th	W	Cardiovascular
March 22 nd	F	Cardiovascular
March 25 th	M	Cardiovascular
March 27 th	W	Cardiovascular
March 29 th	F	Immune
April 1 st	M	Immune
April 3 rd	W	Immune
April 5 th	F	Immune
April 8 th	M	Exam 3
April 10 th	W	Digestive
April 12 th	F	Digestive
April 15 th	M	Digestive
April 17 th	W	Urinary
April 19 th	F	No class
April 22 nd	M	Reproductive
April 24 th	W	Reproductive
April 26 th	F	Reproductive
May 7th	T	Noon - Final Exam

Note: Topics may be covered on different dates – this schedule is an approximation.