

# BIOL 252: Human Anatomy & Physiology

Department of Biology  
11:15-12:05, MWF in GSB 200  
Fall 2019  
Course Syllabus

Instructor  
Dr. Marsha Penner  
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Office Hours: By appointment (please use the sign up tool on our Sakai site!)

Office location: Wilson 104

**Contacting me:** For the quickest response, *please use the message tool on our course Sakai site to contact me!*

## COURSE DESCRIPTION & OBJECTIVES

Human Anatomy & Physiology is an advanced course that investigates the form and the function of the human body. You should expect a comprehensive, demanding, and rigorous class! The course is composed of three class meetings each week, and most of you will also take the lab (252L). The lab will get into the details of the **anatomy** of the human body. This course will focus on how human **physiology** follows our basic anatomy and will cover twelve body systems. At the end of this semester you should be able to:

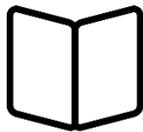
- Define anatomy and physiology and explain the relationship between structure and function
- Define homeostasis and explain why it is important for proper body functions
- Predict the physiological outcomes of homeostatic imbalances
- Describe the organization of each of the twelve organ systems of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

## TARGET AUDIENCE

This course is intended for students interested in studying the anatomy and physiology of the human body.

Prerequisites BIOL 101 and BIOL 101L.

## COURSE RESOURCES



**TEXTBOOK:** The textbook for this class comes with a web-based software package called MasteringAP. You will use this platform for quizzes and pre-lecture assignments. There are other purchase options that come with the book (see “Details about eBook and purchase options” in the Sakai Syllabus folder). To register for MasteringAP, check the Sakai Syllabus folder and the file “MasteringAP registration instructions”. **Course ID = penner15155**

**SAKAI:** Additional readings, practice exams, study questions, Powerpoint slides, and other resources can be found on the course Sakai site: <https://sakai.unc.edu/>. In some cases the background will be given as mini-lectures that you will access through the VoiceThread tool on Sakai.



**PEER MENTORS:** Several students who excelled in this class in the past will serve as your peer mentors. They will be present in class to assist during class activities and each of them will offer a weekly hour and a half of one-on-one mentoring session (check Piazza and our Sakai site for updated mentoring session hrs.)

**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 have reported that SI sessions are one of the most significant tools that improved their learning!

## COURSE REQUIREMENTS

### WHAT YOU SHOULD BRING TO CLASS EVERY DAY:

1. A laptop or notebook for note taking.
2. Extra blank paper for drawings, notes, activities etc.
3. 3 x 5 index cards.
4. Your laptop/tablet/smartphone enabled for UNC wi-fi access.

**ATTENDANCE:** Students are expected to attend and participate in class meetings. Some of the material discussed in lecture will not be found in the textbook. You are responsible for all material and announcements made in lectures.

### ASSIGNMENTS

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

1. 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 will be given via the MasteringAP system.
2. In-class assignments will include Learning Catalytics (see below), note cards, and other activities
3. Post-class assignments will include mostly Peerwise assignments (see below)

The due dates for submitting your assignments can be found on the class detailed schedule posted on Sakai. I will not send reminders. You are responsible to follow the schedule and submit the assignments on time.

There will be no “second chances” in this case. Make sure you check the schedule and plan your time carefully. The time for all due dates is 10:00 am

## LEARNING CATALYTICS

During class time we will use Learning Catalytics (LC), an interactive program that will allow you to participate in assignments through your electronic device. LC comes as part of a package when you purchase the MasteringAP and the textbook. For accessing LC, check the Sakai Syllabus folder and the file “Learning Catalytics access instructions”

## PEERWISE

We will be using Peerwise to deepen your understanding of course material. On the Peerwise site, you will write multiple choice questions, and answer and evaluate questions posted by your peers. Research shows that writing test questions is an effective study tool because it requires that you have a deep understanding of the material. Some questions that appear on each exam may come directly from Peerwise! Start by visiting PeerWise here (or click on the Peerwise tab on the course Sakai page):

[http://peerwise.cs.auckland.ac.nz/at/?unc\\_edu](http://peerwise.cs.auckland.ac.nz/at/?unc_edu). If you have not used PeerWise before, click the "Registration" link and follow the prompts. If you have used PeerWise before, log in and then select "Join course" from the Home menu. To access our course, "BIOL 252 Fall 2019 Penner", you will need to enter two pieces of information: 1) **Course ID =19761**) Identifier = Your Onyen. By the end of the semester you should have submitted 12 questions, and answered/evaluated 12 questions. You will be graded as follows: 'A' 12 questions posted, 12 question answered and evaluated; 'B' 10 questions posted, 9 questions answered and evaluated; 'C' 8 questions posted, 6 questions answered and evaluated; less than 8 questions posted and evaluated will earn a '0

## PIAZZA

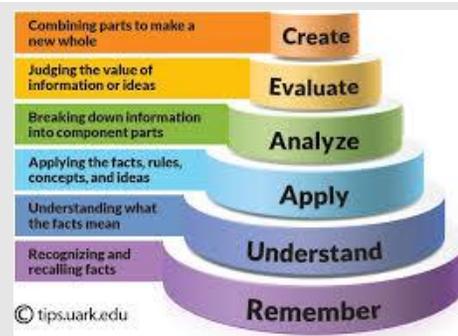
Have questions? We will be using an online platform called “Piazza” this semester. You may post any questions that you have about the course to this site at any time and they will be answered by either a fellow student, a mentor, or me. Your questions may be general and may relate to the course itself 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. Additional instructions for accessing our Piazza site will be provided via Sakai once classes have begun.

## 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.

The quizzes, exams, assignments, and activities that you will complete in this class are carefully designed to optimize your learning.

Many of you will need to retain and **use** what you learn in this class as you move forward into more advanced courses. Thus, my aim is to help you progress through Bloom's taxonomy of learning such that you are analyzing, evaluating, and maybe even creating information!



## GRADES

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

10% = MasteringAP assignments

6% = Assignments [PeerWise (3), Learning Catalytics (3)]



### Letter Grade Assignments

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)

Here is an explanation of grades from the Undergraduate Bulletin (<http://www.catalog.unc.edu/policies-procedures/attendance-grading-examination/>).

**NOTE:** Your grade will be based on **your** performance and not on comparing your performance to your peers. Exam questions will be taken from lectures, assigned readings, and pre-class online lectures. **Grades will not round up.** B= 83, not 82.96.

Note: Exams must be taken on the dates indicated during the regular class period. There are no makeup exams except in special circumstances, i.e. medical or family emergency documented in writing.

## ACADEMIC INTEGRITY

All work that you do for this class must be completed according to the UNC Honor Code. All suspected cases of academic misconduct must be reported to the Office of the Dean of Students. If you have not done so previously, please review the academic code:

[http://integrity.unc.edu/hc\\_handout.html](http://integrity.unc.edu/hc_handout.html). All course materials including your notes and assignments are covered by University Copyright Policy, found here:

<http://www.unc.edu/campus/policies/copyright%20policy%2000008319.pdf>. *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.*



# DIGITAL ETIQUETTE



It will be necessary to use a digital device during class time. Please be respectful of your classmates and restrict your use to course content. Hopefully it will never come to this – but I will ask you to put your device away for the rest of the class, and you will forfeit your participation points for that day if you chose to distract your peers during class time.

# RESOURCES ON CAMPUS

The Writing Center is a wonderful resource to use if you need some help with your writing and editing skills, and The Learning Center would love to coach you – they have excellent coaching opportunities for things like time management, study skills, and goal setting. Give them a try!



If you experience difficulty during the semester that interferes with your ability to come to class or complete your work, including difficulty securing food or housing, or stress and mental health issues, I urge you to contact the Office of the Dean of Students (in person or by phone 919-966-4042) or Counseling and Psychological Services (in person or by phone 919-966-3658). If you see that someone in our class is struggling please let me know. We are a learning community and can help each other be successful.

If you require an accommodation, please contact the Office of Accessibility and Resources. If you have accommodations to take exams at the Office of Accessibility Resources, please let me know as soon as possible so that I have an exam ready for you on exam days.

## Course Schedule

Below you will find a general schedule. For a detailed schedule, including assigned readings and assignments, etc, please review the **Detailed Course Schedule** found on our Sakai website under the Syllabus folder

**Changes to the Syllabus:** THE PROFESSOR RESERVES THE RIGHT TO MAKE CHANGES TO THE SYLLABUS, INCLUDING PROJECT DUE DATES AND TEST DATES. THESE CHANGES WILL BE ANNOUNCED AS EARLY AS POSSIBLE. Please make sure you check your email and/or the Sakai site regularly for updates.

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

1	Aug 21	W	Introduction to class
2	Aug 23	F	Introduction to A&P; Introduction to the Nervous System
3	Aug 26	M	Cells of the Nervous System
4	Aug 28	W	Membrane Potential – Resting and Local
5	Aug 30	F	Action Potential

	Sept 2	M	No class
6	Sept 4	W	Action Potential
7	Sept 6	F	Synaptic Activity
8	Sept 9	M	Brain
9	Sept 11	W	Brain
10	Sept 13	F	Sensation
11	Sept 16	M	Sensation
12	Sept 18	W	Endocrine
13	Sept 20	F	Exam 1 – Nervous System
14	Sept 23	M	Endocrine
15	Sept 25	W	Endocrine
16	Sept 27	F	Skeletal
17	Sept 30	M	Skeletal
18	Oct 2	W	Skeletal
19	Oct 4	F	Muscular
20	Oct 7	M	Muscular
21	Oct 9	W	Muscular
22	Oct 11	F	Muscular
23	Oct 14	M	Muscular
24	Oct 16	W	Exam 2 – Endocrine, Skeletal, Muscular
	Oct 18	F	No class
25	Oct 21	M	Cardiovascular
26	Oct 23	W	Cardiovascular
27	Oct 25	F	Cardiovascular
28	Oct 28	M	Cardiovascular
29	Oct 30	W	Cardiovascular
30	Nov 1	F	Cardiovascular

31	Nov 4	M	Immune
32	Nov 6	W	Immune
33	Nov 8	F	Immune + <i>Integumentary online</i>
34	Nov 11	M	Digestive
35	Nov 13	W	Exam 3 - Cardiovascular, Immune, Integumentary
36	Nov 15	F	Digestive + <i>Respiratory online</i>
37	Nov 18	M	Digestive
38	Nov 20	W	Urinary
39	Nov 22	F	Urinary
40	Nov 25	M	Reproductive
	Nov 27	W	No class
	Nov 29	F	No class
41	Dec 2	M	Reproductive
42	Dec 4	W	Reproductive
	Dec 10	T	Noon - Final Exam – Digestive, Respiratory, Urinary, Reproductive