BIO 222: HUMAN ANATOMY

SPRING 2023

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Office: SCCT 3018
Office Hours: Wednesdays 10-12 pm

COURSE DESCRIPTION AND OBJECTIVES

Course Description:

Exploration of the structure and function of human tissues, organs and systems with an introduction to basic pathology and diagnostic tools. This course emphasizes physiological function and the role of anatomical form in these processes. Examines skeletal, muscular, cardiovascular, respiratory, gastrointestinal, urinary, and reproductive systems of humans. Thoughtful dissections of animal model systems and analysis of histology will be the focus of the laboratory.

Meetings:

Class: Tuesday and Thursday 10:30 - 11:45 am *Room:* SCCT G027

Lab: Wednesday 1:00-4:00 pm or Thursday 1:00 - 4:00 pm *Room:* SCCT 2058

Final Exam: TBD

Textbook, Readings, and Course Material:

Texts:

Textbook: Martini, F. H., Nath, J.L., and Bartholomew, E. F., Fundamentals of Human Anatomy and Physiology, 11th edition, 2018

Lab Manual: Wood, M.G., Laboratory Manual for Anatomy & Physiology

Readings and course material will be posted on Blackboard, Google Drive, or sent by email.

Suggested Material:

Kapit, W. and Elson, L. M., The Anatomy Coloring Book

3D4Medical.com, Essential Anatomy 5 App

Course Goals:

During this course, we will strive to meet five of Hamilton's educational goals (Intellectual Curiosity and Flexibility, Analytical Discernment, Disciplinary Practice, Creativity, and Communication and Expression).

1. Intellectual Curiosity and Flexibility: Students will examine facts in problem-based learning activities and adapt views based on new information about their subjects.

2. Analytical DIscernment: Students will learn to identify patterns and connections between different regions of organ systems that may be important for identifying other anatomical features or regional dysfunction.

3. Disciplinary Practice: Students will discuss diseases and disorders commonly found in occupations involving human health and biology.

4. Creativity: Students will use their knowledge of organ systems to identify, diagnose, and treat diseases and disorders

5. Communication and Expression: Students will use proper anatomical terminology to identify organ systems and explain disease pathology

COURSE POLICIES

Accommodations and Accessibility:

In compliance with Hamilton College policy and equal access laws, I am available to discuss appropriate academic accommodations that may be required for students with disabilities. Requests for academic accommodations are best made during the first two weeks of the semester, except for unusual circumstances, so adjustments can be implemented. Students should contact Allen Harrison in the Office of the Dean of Students (Elihu Root House; ext. 4021) to verify their eligibility for appropriate accommodations.

Your success in this class is important to me. If there are aspects of this course that prevent you from learning or exclude you, please let me know as soon as possible. Together we will develop strategies to meet both your needs and the requirements of the course.

Mental Health:

There are times that each of us may feel overwhelmed, anxious, or depressed. There are many resources on campus to help and support you.

Counseling Center (Website: www.hamilton.edu/offices/counselingcenter Phone: 315-859-4340): Located at 100 College Hill Road offers individual and group therapy, peer counselors, psychiatric treatment, and a 24 hours hotline. If you need immediate assistance,

phoning the Counseling Center and selecting option 2 will connect you with a counselor, 24 hours a day, 7 days a week.

Sarah Solomon, Associate Dean of Students for Student Support (315-859-4600; ssolomon@hamilton.edu)

Adam Van Wynsberghe, Associate Dean of Students for Academics (315-859-4600; avanwyns@hamilton.edu)

Your faculty advisor

Your RA and Area Director in your residence hall

Attendance and Participation Policy

All material will be presented digitally in the form of Powerpoint presentations that will accompany my lecture explanations. It is recommended that you take your own personal notes from these Powerpoints as that is a proven active way to engage with the material. It allows you to then have notes to study from for any homeworks or exams. All assessments will come from lectures and thus to be successful it is important to be in attendance.

This course relies on in-class discussions and conversations to meet learning objectives. Attendance and participation are critical to effective learning and meeting the requirements of the course. Your success and participation points are contingent upon active participation.

Full engagement and participation in every class is required, as is your preparation, attendance, and timeliness. As it is a small class, please notify me well in advance if you know you are going to be absent. If you miss a class due to a life event, please let me know the reason as soon as you can via email. We will work together to address any missed assignments or labs.

** Please note that if you feel sick for any reason or test positive for COVID-19, please email me, stay home and attend class remotely if it is possible.*

Blackboard:

I would highly recommend downloading the app and turning on notifications to stay current with the course. I use the announcements function frequently to keep students up on daily happenings and to relay important information so pay close attention to announcements. Log into Blackboard to:

- Check your grades
- View powerpoints
- Receive Announcements and Updates on Assignments
- Find class documents
- Submit assignments
- Access class discussion board

Lateness:

Please be on time for class. Arriving on time assures me and your classmates that you are serious about the course and respectful of everyone's time.

Assignments that are submitted late will be subject to a 10% reduction every 24 hours. To ensure that you do not lose points for late work, special permission must be requested from the instructor *before the due date*.

Honor Code:

The Student Code of Conduct applies inside and outside this class. In addition to maintaining your own integrity, remember that the honor code requires you to report any instances of suspected cheating that you personally witness, either to your professor or to the dean of students. Science is highly collaborative, so you are encouraged to discuss lecture material, study together, discuss lab results and share resources. However, science is peer-reviewed and self-selecting. Do not plagiarize, cheat, or copy. It is very difficult to regain trust once it is broken.

Electronics in Class:

I encourage you to be judicious and conscientious in your use of technology. Phones, laptops, and tablets have great potential to engage us by providing a way to take efficient notes or look up information to supplement the discussion. However, they often have greater potential to disrupt our engagement. If you need to use electronic devices or feel more comfortable doing so over written notes, please be respectful to your peers and to me (i.e. make sure that your sound is turned off) as they may create distractions. If I feel that technology is drawing you out of class (i.e. through distractions such as email, social media, readings/assignments for other courses, etc) I will ask you to put away your device.

If you require adjustments and accommodations for this electronics policy, please let me know right away.

Emergency Preparedness:

In the event of an extended disruption of normal classroom activities, the format for this course may be modified to enable its completion within its programmed time. In the event of an evacuation order during class, we will evacuate to the main quad in front of SCCT and await further instructions. In the event of a shelter-in-place order during class, we will stay in class until the order is called off. In the event that a shelter-in-place is in effect when class starts, class will be cancelled for the day.

Class Cancellation:

Any class cancellations will be communicated via announcements in Blackboard. Be sure you have your alert settings turned on.

Masking:

In accordance with Hamilton College guidelines, masking is currently optional if you are vaccinated and have not recently tested positive. However, this can change at any point in the course of the semester and masks may be required either in lab or lecture at my discretion should guidelines change or circumstances arise.

Grading

The final course grade will be derived from the lecture grade (approximately 70%) plus the laboratory grade (approximately 30%). The lecture grade will be determined by five exams, 10 homework assignments, an anatomy project and class participation. (1000 total points possible):

Grading:

5% Participation
10% Homework
10% Project
33% Laboratory
42% Exams

Letter Grade	%	Letter Grade	%
A+	98-100	C+	78-81
A	95-97	C	75-77
A-	92-94	C-	72-76
B+	88-91	D+	68-71
B	85-87	D	65-67
B-	82-84	D-	62-64
		F	Below 62

Assessments	Point Breakdown	
LABORATORY:		
Practicals x 4	75 pts each	300 pts
Quizzes x 3	10 pts each	30 pts
LECTURE:		
Participation	50 pts	50 pts
Homework x 10	10 pts each	100 pts
Project	100 pts	100 pts
Exams x 4	80 pts each	320 pts
Final Exam	100 pts	100 pts
Total		1000 pts

Assignments:

Homework: (100 pts total) There will be 10 homework assignments. These will primarily address disease states of each system
Participation: (50 pts total) You will earn participation points by presenting to the class your individual homework disease assignment.

Project: (100 pts total) Students will pitch a project sometime mid-semester with the project due the final day of classes. We will discuss this more in lecture. These will be dynamic, multi-media presentations of your creation, not in paper format.
Exams: (720 pts total) Both for lab and lecture, exams will be unit exams covering the material covered immediately preceding that exam. The final exam will be a smaller unit exam with a cumulative component.
Quizzes: (30 pts total) There will be 3 laboratory practical style quizzes in between lab practical exams.