

Human Form and Function (BIOH 112) *Fall Semester 2017*

Professor: Annie Green, PhD

Office: Health Science Bldg 210

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Office hours: Tuesdays and Thursdays, 12:30 to 2:00pm and by appointment

Course hours and location: Tuesdays and Thursdays 3:30 to 4:50pm, ULH
Course Moodle Page (<https://moodle.umt.edu>)

Description

Welcome to introductory human form and function! This course provides the basic study of the structure and function the human body. In this course, we will explore the fundamentals of structure and function at basic cellular and tissue levels, in addition to the anatomy and physiology of the integumentary, musculoskeletal, and nervous systems. Upon completion, students should be able to demonstrate a basic understanding of the structure and function of the human body and their interaction in the maintenance of life.

Learning Outcomes

At the end of the course, students will be able to:

1. Define and explain basic medical terminology related to anatomy and physiology.
2. Understand, identify, and describe anatomical structures and the physiological function of the body systems.
3. Relate structure to function.
4. Interpret physiological data
5. Define and describe the mechanisms involved in homeostatic regulation of the body.
6. Use critical thinking skills to predict the consequences of specific perturbations.

COURSEWORK

- ***Lectures***

I strongly recommend that you take notes during lectures, reviewing lecture materials, and when completing further insights exercises. [Research shows that people perform better on conceptual tests when drawing and writing notes rather than typing the notes.](#) If you have never taken college-level notes before or want some advice, check out this [video describing five note-taking techniques](#) aimed at college students. One of these techniques may work for you.

- ***Text***

We will be using “Anatomy and Physiology” Jenkins and Tortora 1st edition with the WileyPlus bundle. If you bought the txt from the UM bookstore the book will include a registration code for the WileyPlus content. You can purchase WileyPlus as a stand-alone product and does include an e-version of the required text mentioned above. If you wish to purchase WileyPlus

ONLY and are comfortable having a digital version of the required text you may do so by following the instructions found on the WileyPlus page for the course.

- ***Practice quizzes and exams***

There are 25 practice quizzes in this course corresponding to the lectures. These practice quizzes will require application of information from lectures and the book in new contexts related to the material. You will complete the practice quizzes on the WileyPlus platform and/or Moodle platform. These quizzes test if you have grasped the major concepts of each lecture. These practice quizzes need to be completed before the corresponding lecture exam.

There will be three exams in this course. Two lecture exams follow the associated lectures, practice quizzes, and reading. The final exam will be comprehensive with approximately 70% new material and 30% older material from the two prior lecture exams. Each exam will consist of multiple-choice, true/false, short answer, and matching questions. The answers will be recorded on electronically graded Scantron forms (red narrow), which are available at the bookstore. Each unit exam will consist of approximately 50 questions. The final exam will have approximately 100 questions. The dates for each exam are on the course schedule.

You will receive a zero for a missed, unexcused exam. Makeup exams are possible if you have a serious personal emergency. Only students presenting verifiable medical or university excuses directly to Dr. Green at least 24 hours before the regularly scheduled exam will be eligible for a make-up exam. Make-up exams will consist entirely of essay questions, and will include additional lecture material covered after the regularly scheduled exam. Students generally find make-ups to be more difficult than the regularly scheduled exam.

- ***Further Insight Exercises***

To perform well on the practice quizzes and exams, one must use problem-solving to tackle a biological concept. Many course units will include further insight videos or exercises. Further insights give you the opportunity to work through a problem step-by-step or hear a more detailed explanation of a concept taught in the lecture. These exercises are designed to help you develop your scientific problem-solving skills. I strongly recommend reviewing these videos/exercises.

- ***Forums and "Office Hours"***

Office hours are held in my office (HS210) on Tuesdays and Thursdays from 12:30 to 2:00pm or by appointment. Furthermore, I maintain an open door policy with all of my students. If my door is open, please feel free to come on by to chat. Additionally, there is a discussion forum at the top of the Moodle page, which students can use to post comments/questions about course material. I will read the posts and answer them if appropriate. I aim to provide answers within 24 hours.

- **Grading**

Grades in this course will be assigned in the +/- system. Your grade is based on the following:

2 Lecture Exams (at 100 pts each)	200
1 Final Exam (at 200 pts each)	200
25 Practice quizzes (at 10 pts each)	<u>250</u>
Total	600

COURSE POLICIES

- ***Make-up examinations***

Make-up exams are possible if you have a serious personal emergency. You will receive a zero for a missed, unexcused exam. Only students presenting verifiable medical or university excuses directly to Dr. Green at least 24 hours before the regularly scheduled exam will be eligible for a make-up exam.

- ***Technical Requirements***

Students are expected to be familiar with computers and the Internet. Students are responsible for their own software and computer equipment maintenance and setup as recommended by the University of Montana (<http://www.umt.edu/it/default.php>). Students must have software capable of downloading and reading PDF files. If you are having any technical issues please contact the IT department at <http://www.umt.edu/it/support/default.php>.

IMPORTANT - it is imperative that you understand how to operate Moodle. I have posted a Moodle tutorial to help anyone who is unfamiliar with the platform. This important orientation will require less than 1 hour of your time. You will earn a Moodle certificate as proof of your mastery.

- ***Adds, drops, and changes of grading***

University policies on drops, adds, changes of grade option, or change to audit status will be strictly enforced. These policies are described in the 2016-17 UM course catalogue, [http://www.umt.edu/catalog//2015-2016 all catalog PDF.pdf](http://www.umt.edu/catalog//2015-2016%20all%20catalog%20PDF.pdf). The last day to drop summer courses without the Dean's signature is 5:00PM on Thursday November 1st. Thereafter, a DROP may be requested by petition, but the petition must be accompanied by documentation of extenuating circumstances. Requests to drop a course or change the grade basis to benefit a student's grade point average will not be approved.

- ***Cheating and Plagiarism***

Although I encourage students to work collaboratively with others, ***the work you hand in must be your own***. A good rule of thumb is that you can work together up to the point of committing words to paper (or word processor). After that, the words you put down should be your own. I remind you of the official University policy on plagiarism: "Plagiarism is the representing of another's work as one's own. It is a particularly intolerable offense in the academic community and is strictly forbidden. Students who plagiarize may fail the course and may be remanded to

Academic Court for possible suspension or expulsion ([See Student Conduct Code section of this catalog](#)). Students must always be very careful to acknowledge any kind of borrowing that is included in their work. This means not only borrowed wording but also ideas. Acknowledgment of whatever is not one's own original work is the proper and honest use of sources. Failure to acknowledge whatever is not one's own original work is plagiarism." (Quotation from the University of Montana Catalog). If you have any questions about the line between collaboration and plagiarism, see your professor before you hand in material. Submissions from two or more students that have significant overlap will be regarded as reflecting a violation of the expectation that students turn in independent work. All the students involved will be given no points for that material, and the violation will be dealt with according to the Student Conduct Code. Penalties for plagiarism and cheating can be as severe as suspension or expulsion from the university.

- ***Students with Disabilities***

The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (DSS). If you think you may have a disability adversely affecting your academic performance, and you have not already registered with DSS, please consult <http://life.umt.edu/dss/> and contact DSS in Lommasson 154. I am happy to work with you and DSS to provide appropriate accommodations for your learning and testing. If you would like to request reasonable accommodations, you must provide documentation to Dr. Green the first week of class so appropriate arrangements can be made. In the event that students decide after the semester begins that they would like to disclose their disability and request accommodations, students must provide documentation at least 10 days prior to the upcoming assessment so that instructors may prepare appropriately. It is the responsibility of students to make sure they understand the types of modifications available to them prior to assessments.

- ***Classroom Behavior***

You are not required to attend lecture. However, students who come to class regularly do better on exams and quizzes than those who do not! If you choose to come, conduct yourself as a responsible, courteous adult. Students who are being disruptive in lecture by talking, sending or receiving messages, reading the newspaper, eating, or playing computer games/videos will be asked to leave the classroom. Such behaviors affect the learning of other students in the classroom and will not be tolerated. Re-admittance to class is at the discretion of the instructor. The second such offense will result in dismissal from BIOH 112 with a grade of F.

- ***A Note on Email and Spam Filters***

All email communication for the course will be sent to your **official university email**, and not to other email providers. If you don't normally check your university email you will miss important emails. You can have your university email forward messages to other email addresses (e.g., gmail, yahoo, etc). When I email the whole class the message will go to lots of email addresses, and some email providers will block this as spam. You will want to check the settings of your spam filters so that they allow such messages.

Human Form and Function I (BIOH 112) Course Schedule			
Date	Lecture Topic	Reading	Practice Quizzes
UNIT 1: Introduction to Anatomy and Physiology			
8/31	Module 1: Course overview	Chapter 1	Moodle Tutorial
9/5	Module 2: Introduction to A&P	Chapter 1	WP Quiz 1.2
9/7	Module 3: Organization and terminology	Chapter 1	WP Quiz 1.3
UNIT 2: Levels of Organization			
9/12	Module 4: Chemical Level	Chapter 2	WP Quiz 2.4
9/14	Module 5: Cellular Level	Chapter 3	WP Quiz 2.5
9/19	Module 6: Tissue Level	Chapter 4	WP Quiz 2.6
9/21	Module 7: Higher order	Table 1.1	WP Quiz 2.7
UNIT 3: Homeostasis			
9/26	Module 8: Mechanisms	Chapter 1	WP Quiz 3.8
9/28	Module 9: Maintenance	Chapter 1	WP Quiz 3.9
10/3	Catch-up/review		
10/5	EXAM 1 – Units 1, 2, and 3 Thursday, October 5, 2017		
UNIT 4: Integumentary System			
10/10	Module 10: Structure	Chapter 5	WP Quiz 4.10
10/12	Module 11: Function	Chapter 5	WP Quiz 4.11
10/17	Module 12: Homeostasis	Chapter 5	WP Quiz 4.12
UNIT 5: Skeletal System			
10/19	Module 13: Skeletal Tissue Introduction	Chapter 6	WP Quiz 5.13
10/24	Module 14: Axial Skeleton	Chapter 7	WP Quiz 5.14
10/26	Module 15: Appendicular Skeleton	Chapter 8	WP Quiz 5.15
10/31	Module 16: Articulations	Chapter 9	WP Quiz 5.16
11/2	Exam 2 – Units 4 and 5 Thursday, November 2, 2017		
UNIT 6: Muscular System			
11/7	Module 17: Muscle Tissue Introduction	Chapter 10	WP Quiz 6.17
11/9	Module 18: Muscle Structure	Chapter 10	WP Quiz 6.18
11/14	Module 19: Muscle Function	Chapter 10 and 11	WP Quiz 6.19
11/16	Module 20: Principle Skeletal Muscles	Chapter 11	WP Quiz 6.20
UNIT 7: The Nervous System			
11/21	Module 21: Nervous Tissue	Chapter 12	WP Quiz 7.21
11/23	Thanksgiving Holiday		
11/28	Module 22: Central Nervous System	Chapter 13	WP Quiz 7.22
11/30	Module 23: Peripheral Nervous System	Chapter 14	WP Quiz 7.23
12/5	Module 24: Sensory Function	Chapter 15	WP Quiz 7.24
12/7	Module 25: Sensory Function	Chapter 16	WP Quiz 7.25
12/12	Catchup and Review		
12/18	Final Exam - (~ 70% from units 6 and 7 ~ 30% from prior exams) Monday, December 18, 2017 3:20 to 5:20pm ULH 101		

*** Please note this course schedule is subject to change. Students are responsible for all changes.**