

BIOH 112 - HUMAN FORM AND FUNCTION I

COURSE MEETING TIMES: Tuesdays and Thursdays 3:30-4:50pm, ULH

INSTRUCTOR: Heather Labbe, M.S.

CONTACT INFORMATION:

Office phone: 243-5436

Email: heather.labbe@mso.umt.edu

Office Hours: Tuesdays 9:10-11am, ISB 103A and by appointment

COURSE ONLINE SUPPLEMENT: All lectures, assignments, and info regarding participation opportunities will be posted on the course Learning Management System (LMS), [Moodle](#).

TEXT: REQUIRED: "Anatomy and Physiology" Jenkins and Tortora, 1st edition

RECOMMENDED: WileyPlus is the publisher generated online content for the course. If you bought your text from the UM bookstore the book will include a registration code for this content. It may also be purchased as a standalone product and does include an e-version of the above required text. If you wish to ONLY purchase WileyPlus 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.

GENERAL COURSE LEARNING GOALS:

- Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and physiology.
- Recognize the anatomical structures and explain the physiological functions of body systems.
- Recognize and explain the principle of homeostasis and the use of feedback loops to control physiological systems in the human body.
- Use anatomical knowledge to predict physiological consequences, and use knowledge of function to predict the features of anatomical structures.
- Recognize and explain the interrelationships within and between anatomical and physiological systems of the human body.
- Synthesize ideas to make a connection between knowledge of anatomy and physiology and real-world situations, including healthy lifestyle decisions and homeostatic imbalances.
- Interpret graphs of anatomical and physiological data.
- Approach and examine issues related to anatomy and physiology from an evidence-based perspective.

GENERAL COURSE LEARNING OUTCOMES:

- Demonstrate practical knowledge of human gross and microscopic anatomy.
- Identify structures in the body and their interrelationship with other structures.
- Describe development, regeneration, normal function of body systems.
- From observations of A&P status, interpret observations & predict consequences to homeostasis.
- Demonstrate understanding of chemical and biological principles and knowledge that serve as the foundation for understanding of human anatomy & physiology.
- Employ the scientific process for understanding principles of anatomy & physiology.
- Evaluate scientific value of new A&P observations & data.
- Describe energy-transfer processes in human body & predict consequences of interrupted or pathologic energy transfer.
- Describe cellular processes governing development, growth, & normal function of the human body.

CHAPTER SECTION SPECIFIC LEARNING OUTCOMES ARE PROVIDED IN THE LECTURES, TEXT, AND EMBEDDED WITHIN WILEYPLUS

ASSIGNMENTS:

There are four, 25 point assignments that are due throughout the semester. Assignment assessments are generally based off of a reading, video, or podcast which will be accessible via the course Moodle supplement.

All assignment assessments will be posted on Moodle two weeks prior to their due date, and must be completed and submitted prior to the due date deadline.

Assignment due dates:

9/22/16

10/20/16

11/17/16

12/8/16

NO LATE ASSIGNMENTS WILL BE ACCEPTED.

PARTICIPATION GRADE LAB PROSECTION DAYS:

THURSDAYS 1:30 – 3 PM

FRIDAYS 2:30 – 4 PM

SUNDAYS 7:00 - 8:30 PM

MONDAYS 9:00 – 10:30 AM

Prosection 1: Overview of Organ Systems: Focus on Terminology and Identification
SEPTEMBER 15TH, 16TH, 18TH AND 19TH

Prosection 2: Focus on the Skeletal System and Articulations
OCTOBER 20TH, 21ST, 23RD AND 24TH

Prosection 3: Focus on Muscle Anatomy and Physiology
NOVEMBER 17TH, 18TH, 20TH AND 21ST

Prosection 4: Focus on the Nervous System
DECEMBER 8TH, 9TH, 11TH AND 12TH

Additional participation point opportunities will be posted to the Moodle page as the semester progresses. These may take the form of, but are not limited to, temporally limited online assessments, service activities, and attendance at on or off campus lectures or seminars. Availability of participation opportunities is subject to the discretion of the instructor. No more than 200 points will be made available during the semester, from which each student will fill a quota of 50 points. **Once the quota is filled, a student may continue to complete the participation activities, but no more than 50 participation points will be awarded. If a student accrues 150 or more points, a bonus of 5 points of extra credit will be added to their overall course point total.**

NO STUDENT WILL BE ABLE TO ACCUMULATE MORE THAN 50 POINTS OF PARTICIPATION, REGARDLESS OF THE NUMBER OF POINTS ACCUMULATED OVER 50.

NOTIFICATION OF PARTICIPATION POINT OPPORTUNITY AVAILABILITY WILL BE SENT TO YOUR UNIVERSITY EMAIL ADDRESSES VIA MOODLE ANNOUNCEMENTS.

TENTATIVE READING SCHEDULE (AS WE PROGRESS THROUGH SEMESTER- CHECK MOODLE FOR UPDATES)

DATE	TOPIC	REQUIRED READING
8/30	Course Policies and Introduction to Resources The Human Body, An Orientation	Course P&P handout JT: Ch1 sections 1.1-1.7
9/1	The Human Body, An Orientation	JT: Ch1 sections 1.1-1.7
9/6	Chemical Level of Organization	JT: Ch2 sections 2.1-2.10
9/8	Chemical Level of Organization	JT: Ch2 sections 2.1-2.10
9/13	Cellular Level of Organization	JT: Ch3 sections 3.1-3.7
9/15	Cellular Level of Organization	JT: Ch3 sections 3.1-3.7
9/20	Cellular Level of Organization	JT: Ch3 sections 3.1-3.7
9/22	Tissue: The Living Fabric Assignment #1 Due Today at 11pm	JT: Ch4 sections 4.1-4.9
9/27	Tissue: The Living Fabric	JT: Ch4 sections 4.1-4.9
9/29	Exam #1	
10/4	Tissue: The Living Fabric	JT: Ch4 sections 4.1-4.9
10/6	The Integumentary System	JT: Ch5 sections 5.1-5.8
10/11	Introduction to the Skeletal System	JT: Ch6 sections 6.1-6.9
10/13	Introduction to the Skeletal System	JT: Ch6 sections 6.1-6.9
10/18	The Axial Skeleton	JT: Ch7 sections 7.1-7.10
10/20	The Appendicular Skeleton Assignment #2 Due Today at 11pm	JT: Ch8 sections 8.1-8.5
10/25	Articulations and Movement	JT: Ch9 sections 9.1-9.7
10/27	Muscles and Muscle Tissue	JT: Ch10 sections 10.1-10.9 and Ch12 sections 12.5-12.7
11/1	Muscles and Muscle Tissue	JT: Ch10 sections 10.1-10.9 and Ch12 sections 12.5-12.7
11/3	Exam #2	
11/8	Election Day Holiday – NO CLASS	JT: Ch10 sections 10.1-10.9 and Ch12 sections 12.5-12.7
11/10	Muscles and Muscle Tissue	JT: Ch10 sections 10.1-10.9 and Ch12 sections 12.5-12.7
11/15	The Muscular System	JT: Ch11 sections 11.1-11.5, 11.7-11.9
11/17	Nervous System Fundamentals Assignment #3 Due Today at 11pm	JT: Ch12 sections 12.1-12.10
11/22	Nervous System Fundamentals	JT: Ch12 sections 12.1-12.10

DATE	TOPIC	REQUIRED READING
11/24	Thanksgiving Holiday- NO CLASS	
11/29	Central Nervous System	JT: Ch13 sections 12.1-13.10
12/1	Central Nervous System	JT: Ch13 sections 12.1-13.10
12/6	Peripheral Nervous System	JT: Ch14 sections 14.1-14.8; Ch15 section 15.3; Ch16 sections 16.3-16.4, 16.7
12/8	Peripheral Nervous System- ANS & Special Senses Assignment #4 Due Today at 11pm	JT: Ch14 sections 14.1-14.8; Ch15 section 15.3; Ch16 sections 16.3-16.4, 16.7
Wednesday 12/14	Final Exam	(3:20pm - 5:20pm)