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BIOH 112.01: Human Form and Function I

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BIOH 112 - Human Form and Function I

Course Meeting Times: Tuesdays and Thursdays 3:40-5pm, NULH

Instructor: Heather Labbe

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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: <http://umonline.umt.edu/>

Text: Anatomy and Physiology: From Science to Life. Jenkins and Tortora, 3rd edition –**required**

- 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 here: <http://edugen.wileyplus.com/edugen/class/cls408720/> -**recommended**

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 lecture powerpoints, text, and embedded within the online publisher's content (WileyPlus)

Tentative Reading Schedule (as we progress through semester- check Moodle for updates)

Date	Topic	Required Reading
8/26	Course Policies Introduction to Resources	Course P&P handout
8/28	The Human Body, An Orientation	JT: Ch1 sections 1.1-1.7
9/2	The Human Body, An Orientation	JT: Ch1 sections 1.1-1.7
9/4	Chemical Level of Organization	JT: Ch2 sections 2.1-2.10
9/9	Chemical Level of Organization	JT: Ch2 sections 2.1-2.10
9/11	Cellular Level of Organization	JT: Ch3 sections 3.1-3.7
9/16	Cellular Level of Organization	JT: Ch3 sections 3.1-3.7
9/18	Tissue: The Living Fabric Assignment #1 Due Today	JT: Ch4 sections 4.1-4.9
9/23	Tissue: The Living Fabric	JT: Ch4 sections 4.1-4.9
9/25	Tissue: The Living Fabric	JT: Ch4 sections 4.1-4.9
9/30	The Integumentary System	JT: Ch5 sections 5.1-5.8
10/2	Exam #1	
10/7	Introduction to the Skeletal System	JT: Ch6 sections 6.1-6.9
10/9	The Axial Skeleton	JT: Ch7 sections 7.1-7.10
10/14	The Appendicular Skeleton	JT: Ch8 sections 8.1-8.5
10/16	Articulations and Movement Assignment #2 Due Today	JT: Ch9 sections 9.1-9.7
10/21	Muscles and Muscle Tissue	JT: Ch10 sections 10.1-10.9 and 12.5-12.7
10/23	Muscles and Muscle Tissue	JT: Ch10 sections 10.1-10.9 and 12.5-12.7

10/28	Muscles and Muscle Tissue	JT: Ch10 sections 10.1-10.9 and 12.5-12.7
10/30	The Muscular System	JT: Ch11 sections 11.1-11.5, 11.7-11.9
11/4	Election Day Holiday	
11/6	Exam #2	
11/11	Veteran's Day Holiday	
11/13	Nervous System Fundamentals Assignment #3 Due Today	JT: Ch12 sections 12.1-12.10
11/18	Central Nervous System	JT: Ch13 sections 12.1-13.10
11/20	Central Nervous System	JT: Ch13 sections 12.1-13.10
11/25	Central Nervous System	JT: Ch13 sections 12.1-13.10
11/27	Thanksgiving Holiday	
12/2	Peripheral Nervous System	JT: Ch14 sections 14.1-14.8, 15.3, 16.3-16.4, 16.7
12/4	Peripheral Nervous System- ANS Brief intro to Special Senses Assignment #4 Due Today	JT: Ch14 sections 14.1-14.8, 15.3, 16.3-16.4, 16.7
Wednesday 12/10	Final Exam	(3:20pm - 5:20pm)

Assignments:

There are four, 25 point take home 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 Moodle page.

All assignment assessments will be posted on the Moodle page and must be completed and submitted prior to the due date deadline.

No late assessments will be accepted.

Assignment due dates:

9/18/14

10/16/14

11/13/14

12/4/14

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 11th, 12th, 14th, and 15th**

**Prosection 2: Focus on the Skeletal System and Articulations
October 9th, 10th, 12th, and 13th**

**Prosection 3: Focus on Muscle Anatomy and Physiology
November 6th, 7th, 9th, and 10th**

**Prosection 4: Focus on the Nervous System
December 4th, 5th, 7th, and 8th**

Additional Participation Point Opportunities will be posted to the Moodle page as the semester progresses. These may take the form of temporally limited online assessments, service activities, attendance at on-campus lectures or seminars and/or online assessments based on additional readings and are subject to the discretion of the instructor. No more than 150 points will be available during the semester, from which each student will fill a quota of 50 points.

Notification of participation point opportunity availability will be sent to your university email addresses via Moodle announcements.