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### BIOH 212N.00: Human Anatomy and Physiology II - Laboratory

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## BIOH 201/202N, 211/212N - ANATOMY AND PHYSIOLOGY I AND II - COURSE POLICIES

### **Course Objectives:**

This course will provide you with conceptual and practical information on the anatomy and physiology of the human organism. Successfully completing this course at a B or higher level of performance will mean that you have met the following objectives:

What we know of the structure and function of the human body is based on science.

- 1) You will be able to describe the scientific basis for your understanding of anatomy and physiology. Presented with new information you should be able to judge whether it is scientifically sound.

Life depends on the continual input of energy to maintain body organization and function.

- 2) You will be able to describe the processes for energy transfers within the human body.

Structure and function of the body are closely linked. You cannot understand the physical organization of the body and its organ systems without understanding what they do and how they are linked one to another.

- 3) You will be able to describe the cellular basis for life and how cellular processes govern physiology of development, growth, and normal function.
- 4) You will be able to demonstrate practical knowledge of human gross anatomy, including proper naming and physical relationships among the different structures in the body.
- 5) You will be able to describe the normal physiological function of different body systems. Given observations of particular anatomical and physiological status, you should be able to objectively describe those observations and their consequences to normal body function.

### **Course Requirements:**

There are no pre-requisites for enrollment in BIOH 201N. You must successfully complete BIOH 201N in order to take BIOH 211N. The study of human form and function requires exposure to the material from a practical as well as a theoretical approach. Consequently, regular attendance at all lab and lecture meetings is required to successfully complete this course. The class is structured so that if you complete all assignments, with an appropriate level of effort, you can pass this course. This means that in addition to attending class, you must commit yourself to at least eight (8) hours of intensive, individual study, plus an extra two to four hours in open labs each week. You must also accept the responsibility to ask questions if you do not understand the concepts. If absence from lab or lecture is necessary due to illness, it is your responsibility to notify the instructor and to obtain notes from another student.

### **Grading:**

Your course grade will be determined by your performance in the lecture and lab, according to the following schedule:

Lecture Exam 1	40 points
Lecture Exam 2	40 points
Lecture Exam 3	40 points
Lecture Quizzes	50 points
Final Exam	80 points
<b>Total possible for Lecture</b>	<b>250 points</b>

Lab Exam 1	50 points
Lab Exam 2	50 points
Lab Exam 3	50 points
Lab Exam 4	50 points
Quizzes	50 points

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<b>Total possible for Lab</b>	<b>250 points</b>
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<b>Course Total</b>	<b>500 points</b>
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In addition to regular exams and quizzes, there will be periodic assignments or lecture quizzes that will contribute an additional 2 percent toward your final grade. While this is a small percentage, these assignments if completed accurately and on time, can make a difference in borderline totals.

Lecture and lab scores will be combined and final grades assigned as follows:

90-100%	A
80-89%	B
70-79%	C
50-69%	D
<50%	F

**Examinations:**

The lecture and the laboratory are each worth 50% of your final grade. Do not take either lightly. Midterms and lab exams cover only the new materials presented since the previous exam.

**Lecture Exams:**

The lecture exams will be drawn from lecture and assigned reading. Lecture exams will be 40 multiple choice questions worth two and one-half points each. The final exam is comprehensive. Details of the final exam will be presented near the end of the semester.

**Laboratory Exams:**

Laboratory examinations are based on the use of actual specimens, and therefore must be taken during the assigned laboratory time. Because they are difficult to set up, makeup exams for lab exams are generally not given. Each exam is 50 questions that may include hands-on as well as Powerpoint-based questions. Each exam may include up to 10 percent review material from any of the previous exams.

**Quizzes:**

Laboratory quizzes will be given each week during the first 10 minutes of class. If you are tardy and miss the quiz, you will not be allowed to take it and will receive a 0 for that quiz. A total of 15 quizzes are given and the five (5) lowest quiz grades will be dropped at the end of the semester. These 5 drops make allowance for unforeseen circumstances that cause you to perform poorly, be late, or miss a lab. No makeups will be allowed on quizzes until these 5 opportunities have been used.

**Make-up Exams:**

Make-up exams and lab quizzes will only be given under specific circumstances as outlined in the student conduct code. In general you may seek a makeup only if personal/medical event, work related absence, or university responsibility caused you to miss class. Then only if:

- 1) permission is granted in advance by the instructor, or
- 2) a written excuse is provided by medical, university or work staff. The burden of proof is on the student, so you must document and prove a justifiable excuse.

No shows on the day of the exam will automatically be given a grade of 0. If you participate in university athletics or other activities, and must be absent from an exam, you must arrange for the makeup prior to your departure. You must also schedule the makeup to be completed within **one week** after the missed class, unless you receive specific extension from the instructor.

**Review of Completed Exams, Quizzes, and Assignments:**

You are welcome to review any graded work in this class. Keys are posted on MyLabs or in the lab one week after each exam is completed. However, all questions pertaining to grading of a particular exam, quiz, or other assignment must be addressed before the succeeding exam—questions on older exercises will not be considered.

**Dropping and Change of Grading Option:**

University policies on drops, adds, changes of grading option (pass/no pass, audit) will be strictly enforced. These policies are described in the UM Catalog ([www.umt.edu/catalog/acpolpro.htm](http://www.umt.edu/catalog/acpolpro.htm)).

**You should specifically note that after the 30th day of the semester, such changes are NOT automatically approved. They 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 grade point average will not be approved. The faculty senate guidelines concerning incomplete grades will be followed.

**Student Conduct and Responsibilities:**

Attention to critical dates for dropping this class is the student's responsibility. Students wishing to drop the class after the drop deadline will need a documented, justifiable reason for doing so. Dropping or change of grading option after deadlines for fear of a bad grade or to protect you GPA is not justifiable reasons. The principles and policies embodied in the Student Conduct code will be adhered to in this course.

Cheating or any other forms of academic dishonesty will not be tolerated. If you are observed cheating, you will be given a failing grade for the class. Further actions may also be taken in accordance with policies defined in the Student Conduct Code. Personal Integrity is fundamental in health practice so you must commit now to absolute honesty in this class.

**Finally, a word about cell phones.** These devices have become an essential part of student lives, but they are a serious distraction in class. Please turn off all cell phones in class and refrain from receiving and making calls in the class room. If you have special circumstances that require monitoring calls, you must clear them with me and ensure that your phone is on silent mode during class.

## Course Lecture Schedule, BIOH 211/212, Spring 2015

DATE	TOPIC	ASSIGNMENT
<b>WEEK 1</b>		
JANUARY 26	<b>LAB 1 – Special senses</b>	Study Guide on MyLabs
27	Smell, Taste, Hearing	Ch. 15: 556-578; 583-598
28	<b>LAB 1 – Special senses</b>	Study Guide on MyLabs
29	Hearing and Vision	Ch. 15: 556-578; 583-598
30	PNS pathways and integration	PowerPoint lecture
<b>WEEK 2</b>		
FEBRUARY 2	<b>LAB 2 – Histology review, Endocrine glands</b>	Study Guide on MyLabs
3	Autonomic NS	Ch. 14: 533-550
4	<b>LAB 2 – Histology review, Endocrine glands</b>	Study Guide on MyLabs
5	Endocrine system – general principles	Ch. 16: 606-636
6		
<b>WEEK 3</b>		
FEBRUARY 9	<b>LAB 3 – Blood</b>	Study Guide on MyLabs
10	Endocrine system-overview	Ch. 16: 636-639
11	<b>LAB 3 – Blood</b>	Study Guide on MyLabs
12	<b>LECTURE EXAM 1 – ANS through general endocrine</b>	
13		
<b>WEEK 4</b>		
FEBRUARY 16	<b>PRESIDENTS DAY HOLIDAY</b>	
17	Endocrine System	Ch. 16: 636-639
18	<b>LAB 4 – Blood assessment</b>	Study Guide on MyLabs
19	Blood	Ch. 17: 647-673
20	<b>LAB EXAM 1 – Labs 1-4</b>	
<b>WEEK 5</b>		
FEBRUARY 23	<b>LAB 5 – Heart</b>	Study Guide on MyLabs
24	Blood	Ch. 17:
25	<b>LAB 5 – Heart</b>	Study Guide on MyLabs
26	Heart	Ch. 18: 678-689
27		
<b>WEEK 6</b>		
MARCH 2	<b>LAB 6 – Blood vessels of the trunk</b>	Study Guide on MyLabs
3	Heart	Ch. 18: 689-682
4	<b>LAB 6 – Blood vessels of the trunk</b>	Study Guide on MyLabs
5	Heart	
6		
<b>WEEK 7</b>		
MARCH 9	<b>LAB 7 – Blood vessels of the extremities</b>	Study Guide on MyLabs
10	Blood vessels	Ch. 19 723-742
11	<b>LAB 7 – Blood vessels of the extremities</b>	Study Guide on MyLabs
12	Blood Vessels, Lymphatic system	Ch. 20: 774-783

	13	<b>LAB EXAM 2 – Labs 5-7</b>	
<b>WEEK 8</b>			
	MARCH 16	<b>LAB 8 – Cardiovascular assessment</b>	Study Guide on MyLabs
	17	Respiratory system	Ch. 22: 831-846
	18	<b>LAB 8 – Cardiovascular assessment</b>	Study Guide on MyLabs
	19	<b>LECTURE EXAM 2 - Endocrine through heart</b>	
	20		
<b>WEEK 9</b>			
	MARCH 23	<b>LAB 9 – Respiratory anatomy</b>	Study Guide on MyLabs
	24	Respiratory system	Ch. 22: 846-858
	25	<b>LAB 9 – Respiratory anatomy</b>	Study Guide on MyLabs
	26	Respiratory system, pH, homeostasis	Ch. 22: 858-875
	27		
<b>MARCH 30 –APRIL 3</b>		<b>SPRING BREAK</b>	
<b>WEEK 10</b>			
	APRIL 6	<b>LAB 10 – Respiratory assessment</b>	Study Guide on MyLabs
	7	Urinary system	Ch. 25: 998-1021
	8	<b>LAB 10 – Respiratory assessment</b>	Study Guide on MyLabs
	9	Urinary system	
	10	<b>LAB EXAM 3 - 212</b>	
<b>WEEK 11</b>			
	APRIL 13	<b>LAB 11 – Urinary system</b>	Study Guide on MyLabs
	14	Urinary system (pH, electrolytes)	Ch. 25: 1021-1030
	15	<b>LAB 11 – Urinary system</b>	Study Guide on MyLabs
	16	Digestive system	Ch. 23: 883-927
	17		
<b>WEEK 12</b>			
	APRIL 20	<b>LAB 12 – Digestive system</b>	Study Guide on MyLabs
	21	Digestive system	Ch. 23: 927-937
	22	<b>LAB 12 – Digestive system</b>	Study Guide on MyLabs
	23	<b>LECTURE EXAM 3 Vessels through Urinary</b>	
	24		
<b>WEEK 13</b>			
	27	<b>LAB 13 – Female reproductive system</b>	Study Guide on MyLabs
	28	Digestive system	Ch. 24: 956-989
	29	<b>LAB 13 – Female reproductive system</b>	Study Guide on MyLabs
	30	Reproductive system, female	Ch. 27: 1082-1100
	MAY 1	Reproductive system, female & male	Ch. 27: 1082-1100
<b>WEEK 14</b>			
	MAY 4	<b>LAB 14 – Male reproductive system</b>	<b>Study Guide on MyLabs</b>
	5	Reproductive system, male	Ch. 27: 1066-1082
	6	<b>LAB 14 – Male reproductive system</b>	<b>Study Guide on MyLabs</b>
	7	Reproductive system, gestation & development	Ch. 28
	8	<b>LAB EXAM 4 – respiratory assessment through reproductive, male &amp; female</b>	

**FINAL EXAMS**

PLEASE NOTE THAT YOU MUST ATTEND THE FINAL FOR THE SECTION IN WHICH YOU ARE ENROLLED.

MAY 11 Monday-8:00-10:00 ; **Sec. 00**

12

13 Wednesday-8:00-10:00; **Sec. 10**

14

15