

BIOL 246-103
HUMAN ANATOMY & PHYSIOLOGY LAB II
Wednesdays 4:30-7:30

Your Instructor:

Brian Buehler
Main Office phone 657-2031 and leave a message with Melanie
E-mail: bbuehler@billingsclinic.org
Office Hours: by appointment

Your Texts:

Human Anatomy & Physiology Laboratory Manual by Marieb (8th edition).
Human Anatomy & Physiology by Marieb (7th edition).

Your Grade/Outcomes Assessment:

Tests:

The majority of your grade will be based on two examinations: a midterm and a final. These exams will include written and practical components (mostly practical), and except under unusual circumstances will encompass material assigned in the laboratory only.

In addition, there will be a short quiz covering the previous week's material given at the beginning of each laboratory session. There will also be some lab exercises which will require a lab report to be turned in for proper credit.

PhysioEx Labs:

Due to both time and budgetary constraints, you will perform several "virtual labs" on your own time. These labs are computer simulations of physiology experiments contained on the PhysioEx 7.0 CD-ROM, which was included in your text package. While performing the lab procedures, you will complete the appropriate review sheets and turn them in for credit. These should be turned in sometime before the Final Exam. This is a very easy assignment, and it is purely for your benefit. These labs are extremely helpful in illustrating many of the difficult concepts covered in the lecture portion of the class. It is to your advantage to do them thoroughly and correctly.

Assigned labs:

Module 5: Cardiovascular Dynamics (pp. PEx-83 thru PEx-94) (Review sheet 33B questions 1-13)

Activity 1 Activity 3
Activity 2 Activity 4

Module 6: Frog Cardiovascular Physiology (pp. PEx-97 thru PEx-107) (Review sheet 34B)

All Activities (1-9)

Module 8: Chemical and Physiological Processes of Digestion (PEx-125 thru PEx-139)

(Review sheet 39B questions 1-4 and 9-20)

Activity 1 Activity 3 Activity 4

The outcome assessment of this course can be summarized as:

Midterm Exam	25%	Final letter grades will be assigned as follows:	
Final Exam	25%	A = 90-100	D = 60-69
Quizzes	20%	B = 80-89	F ≤ 59
Lab Reports	15%	C = 70-79	
PhysioEx Lab Reports	<u>15%</u>		
	100%		

Lab Schedule

Week	Topic(s)	Chapter(s)*	Noteworthy Events
1	ANS review	21 (M)	1/14
2	Taste/Ear	<u>25 (1-7; 12-18),</u> <u>26 (1-7)</u> (L); 15 (M)	
3	Eye	<u>24 (1-26)</u> (L); 15 (M)	Quiz 1
4	Endocrine System	<u>27</u> (L); 16 (M)	Quiz 2
5	Blood	<u>29 (1-8; 12-20)</u> (L); 17 (M)	Quiz 3
6	Heart	<u>30</u> (L); 18 (M)	Quiz 4
7	Midterm Exam		2/25
8	SPRING BREAK		3/4
9	Circulatory System	<u>32</u> (L); 19 (M)	
10	Lymphatic System Respiratory System	<u>35 (1-12),</u> <u>36 (1-12)</u> (L); 21, 22 (M)	Quiz 5
11	Urinary System	<u>40, 41</u> (L); 25 (M)	Quiz 6
12	Digestive System	<u>38</u> (L); 23 (M)	Quiz 7
13	Mini Break		Easter Holiday 4/8
14	Reproductive System	<u>42, 44</u> (L); 27, 28 (M)	Quiz 8
15	Final Exam		4/22
16	Pick up final exam and grades		

* L denotes Lab Manual
M denotes Marieb text

Students will be expected to have read the assigned section in the lab manual before coming to the lab. The chapters in the Marieb text are listed for your reference.

Underlined lab book chapters indicate those for which the review section will be completed and turned in for credit by the end of the next lab meeting. You may turn in photocopies so as not to have to tear pages out of your book.

***While all lab sections will cover the same material, lab-hopping is not an option. If for good reason you need to attend a section other than the one for which you are registered (a rare occurrence which *will not* be abused), you need to obtain prior clearance from me.

The Material Safety Data Sheets (MSDS) for any chemical used in this laboratory can be obtained from Science Technical Services in Sci 241. These sheets contain information on the hazards associated with the chemical, as well as information on its proper handling and storage.