



ANATOMY & PHYSIOLOGY II LAB

Syllabus: Spring, 2020



Course:	BIOL 248 (Anatomy and Physiology II Laboratory)
Department:	Science & Wellness Division
Instructor:	Derek Martinez
E-Mail:	dmarti43@unm.edu
Class Meeting:	Laboratory: Tuesday 10:30-1:15pm
Credit Hours:	1 credit hour
Class Location:	VAHS 113
Office Location:	Academic Affairs Office-Cubicle: 21
Office Hours:	Tuesday 1:20-2:20 or by appointment
Phone Number:	(505) 925-8634

*Note: The instructor reserves the right to change the syllabus at any time during the semester.

Emails:

In the subject of your email to me, please mention course name and number e.g. 'BIOL 2225'. You must only contact me with your UNM e-mail. You are responsible for all announcements sent via email or learn.unm.edu. Failure to identify your message with the class number, and not using your UNM email will result in no response at all.

Course Description:

This is the second in a series of two laboratory courses designed to introduce laboratory practices and techniques for human anatomy and physiology, from the basic cell structure through the organ system level, specifically the endocrine, cardiovascular, lymphatic, respiratory, urinary, and reproductive systems. Specimen dissections, anatomic models, or cadavers are used (co-requisite with the lecture). Anatomy is heavily stressed with appropriate physiological works.

Student Learning Objectives:

1. Apply the scientific method correctly.
2. Collect, analyze, and interpret scientific data.
3. Use laboratory equipment (e.g. a microscope) correctly and safely.
4. Identify the anatomical components of human tissues, organs, and organ systems using prepared microscope slides, models, diagrams, illustrations, or cadaver specimens.
5. Describe the functional characteristics of human tissues, organs, and organ systems using prepared microscope slides, models, diagrams, illustrations, or cadaver specimens.
6. Analyze the physiological processes of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems.

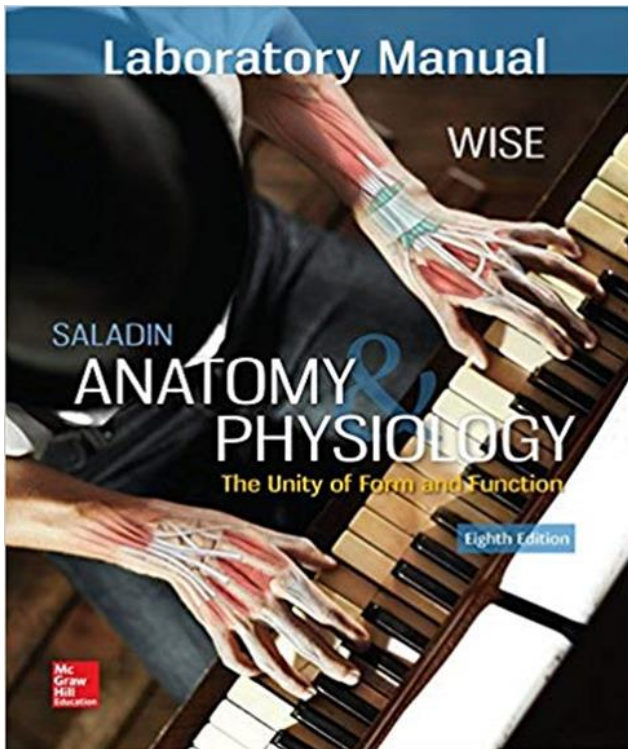
Course Policies:

- ❖ **Anatomy and Physiology Revealed (APR).** Homework will be assigned through APR. You will need to complete homework prior to coming to class (see instructions below).
- ❖ **Attendance.** Attendance is necessary for you to participate in lab as well as fully understand the material presented. This means getting to class on time and completing the exercises covered. If you are more than 2 minutes late, you will be marked absent. Each absence will result in a 0 for that week's participation grade and a 0 for the quiz.
- ❖ **Cell phones.** As a courtesy to the class, please turn off all cell phones or pagers. Any sight of your cell phone during exams and quizzes will also result in a 0 for your participation score. Absolutely under no condition is a cell phone allowed in the cadaver laboratory.
- ❖ **Cheating.** There has been a history of cheating in this course. You will be docked significantly in your final course grade and/or reported to the Dean of Instruction if you are caught.
- ❖ **Family Educational Rights and Privacy Act (FERPA).** The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99) is a Federal law that protects the privacy of student education records. FERPA does not allow disclosure of grades over email as it is not possible to authenticate identity through this medium.
- ❖ **Financial Assistance.** It is the student's responsibility to know policies for funding their education. It is the student's responsibility to maintain funding for their education.
- ❖ **Food and Drink.** There will be NO Food or Drink in the lab room. Water bottles are considered a drink.
- ❖ **Make-up Exams/Quizzes.** There are no make-up exams. Only one make-up quiz will be given if a *valid excuse* is provided e.g. doctor's note, jury duty etc. (see student catalog).

- ❖ **Students with disabilities.** If you have documentation describing any academic adjustments you are eligible for, please see me to ensure that your needs are met in a timely manner.
- ❖ **University Policy.** You are responsible for knowing all university policies that are in the student catalog. This includes policy on cheating, plagiarism, and grade options. You are responsible for maintaining your scholarship or funding for your education.
- ❖ **UNM Learn.** All materials for this class will be distributed through UNM Learn (learn.unm.edu). You are responsible for all material distributed here. The due dates and due times are strictly enforced. You will need reliable and frequent internet access. Lack of internet will not be an excuse for missed assignments.
- ❖ **Withdrawal.** If you drop the course after the deadline to drop without a grade, **Friday, February 7th**, a grade of W *may* be given. You cannot withdraw without Dean's permission after **Friday, April 17th**.

Required Learning Resources:

<https://connect.mheducation.com/class/d-martinez-biol-22251-spring-2020>



- ❖ You will need reliable and frequent internet access for this course. If you do not have this at home, you will have to make arrangements yourself to use computers on campus. Lack of internet will not be an excuse for missed assignments. You will need to keep your electronic device updated, especially the browser. Issues with electronics will not be an excuse for missed assignments. Do not wait until the last minute to complete your work.
- ❖ Required lab manual: Anatomy & Physiology—The Unity of Form and Function Laboratory Manual by Wise, 2015, 8th edition. McGraw Hill Publisher. You will need access to McGraw-Hill's 'Connect.' This is the same access code you use for the lecture course, which you have already purchased. If you are not enrolled in BIOL 2225 please see me and I will get you situated.
- ❖ learn.unm.edu: All course materials will be distributed through Blackboard Learn. Your grades will be recorded in Learn, except for Connect.

Anatomy & Physiology Revealed:

Course Grading Policy: Grades will be assigned based on the student's percentage as follows:

100+	A+	87-89.99	B+	77-79.99	C+	60-69.99	D
93-99.99	A	83-86.99	B	73-76.99	C	below 60	F
90-92.99	A-	80-82.99	B-	70-72.99	C-		

The course grade will be determined as follows:

Quizzes (9 of 10)	35%
Participation (11 of 12)	10%
Pre-labs (APR)	10%
Post-labs (Connect)	10%
Midterm Exam	15%
Final Exam	20%

Quizzes will be nearly every week. The lowest quiz grade will be dropped. Points for each quiz will vary slightly.

Participation during lab is mandatory and deductions will be made if you leave your area a mess, if I have to ask you to put away your cell phone and if you talk during the lesson. Your lowest participation score will be dropped.

Pre-labs will be assigned through McGraw-Hill's Anatomy & Physiology Revealed (APR). These assignments are due before lab. These assignments are graded based on **completion** (not necessarily on correctness).

Post-labs will be assigned after each lab and are due the following week. These will be completed in Connect. These assignments are graded based on **correctness**.

The midterm exam is a combination of practical and theoretical concepts. It is scheduled for **Tuesday, March 24th**. There is no make-up exam under any circumstances.

The final exam is cumulative, although focuses on the second half of the semester. It is scheduled for **Tuesday, May 12th**. There is no make-up exam under any circumstances.

1. Login into learn.unm.edu
 2. Locate the appropriate APR assignment.
 3. Copy the "my Course Content Code." i.e. GfYrh
 4. Login into APR through Connect.
 5. Click on green *my* icon.
 6. Click on *ADD/DELETE List* icon.
 7. Add content code and select list.
 8. Select the appropriate module. i.e. cardiovascular.
 9. Complete the work in:
 - a. my Dissection
 - b. my Animation
 - c. my Histology
 - d. my Imaging
- *Note: not all sections will have work assigned.
10. To earn credit for this work you must take a Quiz. Click on *Take my Quiz*.
 11. Use the instruction in the Learn assignment to take the appropriate quiz. Submit the quiz results as a PDF in the assignment in learn.unm.edu.

Week	Day	Agenda	Assignments Due
1	1/21	Introduction	
2	1/28	Exercise 23: Endocrine System	
3	2/4	No Class (NSF Conference Washington, D.C.)	➤ Connect #1
4	2/11	Exercise 24: Blood Exercise 25: Blood Tests and Typing	➤ APR #1 ➤ Quiz #1
5	2/18	Exercise 26: Anatomy of the Heart Exercise 27: Electrical Conductivity of the Heart Exercise 28: Functions of the Heart	➤ Connect #2 ➤ APR #2 ➤ Quiz #2
6	2/25	Exercise 29: Blood Vessels 1	➤ Connect #3 ➤ APR #3 ➤ Quiz #3
7	3/3	Exercise 30: Blood Vessels 2	➤ Connect #4 ➤ APR #4 ➤ Quiz #4
8	3/10	Exercise 32: Blood Vessels and Blood Pressure	➤ Connect #5 ➤ APR #5 ➤ Quiz #5
-	3/17	No Class (Spring Break)	➤ Connect #6
9	3/24	Midterm Exam	
10	3/31	Exercise 31: Lymphatic System	➤ APR #6 ➤ Quiz #6
11	4/7	Exercise 33: Respiratory System Exercise 34: Respiratory Physiology	➤ Connect #7 ➤ APR #7 ➤ Quiz #7
12	4/14	Exercise 36: Urinary System	➤ Connect #8 ➤ APR #8 ➤ Quiz #8
13	4/21	Exercise 38: Anatomy of the Digestive System Exercise 39: Digestive Physiology	➤ Connect #9 ➤ APR #9 ➤ Quiz #9
14	4/28	Exercise 40: Male Reproductive System	➤ Connect #10 ➤ APR #10 ➤ Quiz #10
15	5/5	Exercise 41: Female Reproductive System and Early Development	➤ Connect #11 ➤ APR #11 ➤ Quiz #11
16	5/12	Final Exam	➤ Connect #12