Biology 248

Anatomy & Physiology II Laboratory Fall 2018

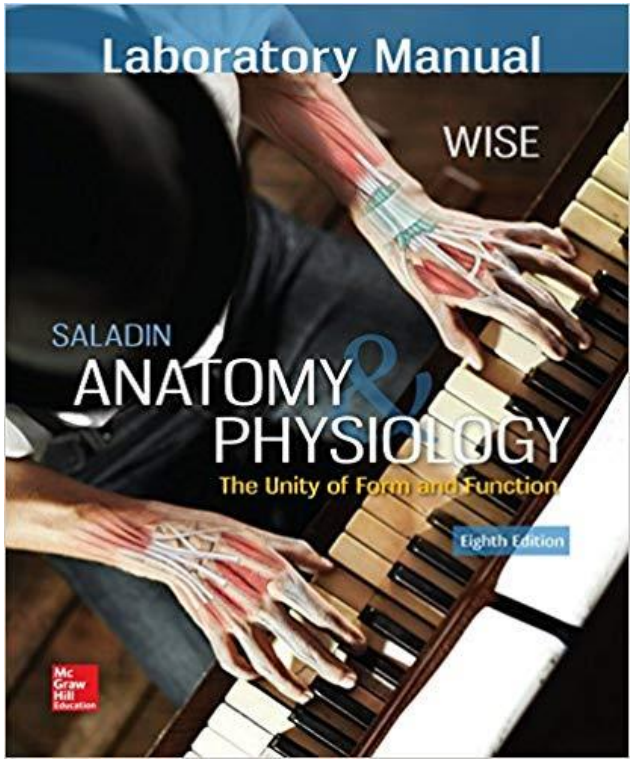
Tuesday 12:00-2:45pm, H113

Instructor: Dr. Melanie Sanchez-Dinwiddie

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Office: H100A



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:

At the end of this course you will be able to…..

1. Apply the scientific method correctly.
2. Collect, analyze, and interpret scientific data.
3. Use laboratory equipment, such as 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.*** Homework will be assigned through APR. You will need to complete homework prior to coming to class.
- **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 loss of 10% of your *attendance* grade.

- **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 result in automatic fail for that assignment. 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.

- **Human cadavers.** I understand there will be some of you who are uncomfortable in working with human cadavers. The amount of interaction I will require with the cadavers is on the midterm and final exams. No person will be exempt from the examination material.

- **Make-up Exams/Quizzes.** There are no make-up exams. Make-up quizzes will be given at the instructor's discretion. Only one make-up quiz will be given during a semester.

- **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, September 7th, a grade of W *may* be given. You cannot withdraw without permission after Friday, November 9th.

Required Learning Resources:

- You will need reliable and frequent internet access for this course. If you do not have this at home, you will have to go somewhere that does. 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 238 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.

http://connect.mheducation.com/class/m-sanchez-dinwiddie-fall-2018---laboratory

Course Grading Policy: The course grade will be determined as follows:

Quizzes (10 of 11)	**35%**
Pre-lab APR Homework	**15%**
Post lab Connect	**15%**
Midterm Exam	**15%**
Final Exam	**20%**

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-		

Quizzes will be nearly every week. The lowest quiz grade will be dropped. All quizzes will be 25 points each.

Homework will be assigned through McGraw-Hill's Anatomy & Physiology Revealed. These assignments are due by 11:59am. These assignments are graded based on completion and not correctness. *See the APR section in this syllabus for more details.*

Post lab Connect assignments are to be completed by Friday 11:59pm following class. These will be completed in Connect. These assignments are graded based on correctness.

The midterm exam is a combination of practical and theoretical. It is scheduled for Tuesday, October 8th. 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, December 3rd. There is no make-up exam under any circumstances.

Anatomy & Physiology Revealed:

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.
12. Submit the quiz results as a PDF in the assignment in LEARN.UNM.EDU.

Week 2	8/28	➢ Due Friday 8/31, 11:59pm; Connect #1
Week 3	9/4	➢ Due Tuesday 9/4, 11:59am; APR #1 ➢ Quiz #1 In-class, 9/4 ➢ Due Friday 9/7, 11:59pm; Connect #2
Week 4	9/11	➢ Due Tuesday 9/11, 11:59am; APR #2 ➢ Quiz #2 In-class, 9/11 ➢ Due Friday 9/14, 11:59pm; Connect #3
Week 5	9/18	➢ Due Tuesday 9/18, 11:59am; APR #3 ➢ Quiz #3 In-class, 9/18 ➢ Due Friday 9/21, 11:59pm; Connect #4
Week 6	9/25	➢ Due Tuesday 9/25, 11:59am; APR #4 ➢ Quiz #4 In-class, 9/25 ➢ Due Friday 9/28, 11:59pm; Connect #5
Week 7	10/2	➢ Due Tuesday 10/2, 11:59am; APR #5 ➢ Quiz #5 In-class, 10/2 ➢ Due Friday 10/5, 11:59pm; Connect #6
Week 9	10/16	➢ Due Tuesday 10/16, 11:59am; APR #6 ➢ Due Friday 10/19, 11:59pm; Connect #7
Week 10	10/23	➢ Due Tuesday 10/23, 11:59am; APR #7 ➢ Quiz #6 In-class, 10/23 ➢ Due Friday 10/26, 11:59pm; Connect #8
Week 11	10/30	➢ Due Tuesday 10/30, 11:59am; APR #8 ➢ Quiz #7 In-class, 10/30 ➢ Due Friday 11/2, 11:59pm; Connect #9
Week 12	11/6	➢ Due Tuesday 11/6, 11:59am; APR #9 ➢ Quiz #8 In-class, 11/6 ➢ Due Friday 11/9, 11:59pm; Connect #10
Week 13	11/13	➢ Due Tuesday 11/13, 11:59am; APR #10 ➢ Quiz #9 In-class, 11/13 ➢ Due Friday 11/16, 11:59pm; Connect #11
Week 14	11/20	➢ Due Tuesday 11/20, 11:59am; APR #11 ➢ Quiz #10 In-class, 11/20 ➢ Due Friday 11/23, 11:59pm; Connect #12
Week 15	11/27	➢ Due Tuesday 11/27, 11:59am; APR #12 ➢ Quiz #11 In-class, 11/27 ➢ Due Friday 11/30, 11:59pm; Connect #13

Week 1	8/21	➢ Introduction
Week 2	8/28	➢ Exercise 23: Endocrine System
Week 3	9/4	➢ Exercise 24: Blood ➢ Exercise 25: Blood Tests and Typing
Week 4	9/11	➢ Exercise 26: Anatomy of the Heart ➢ Exercise 27: Electrical Conductivity of the Heart ➢ Exercise 28: Functions of the Heart
Week 5	9/18	➢ Exercise 29: Blood Vessels 1
Week 6	9/25	➢ Exercise 30: Blood Vessels 2
Week 7	10/2	➢ Exercise 32: Blood Vessels and Blood Pressure
Week 8	10/9	➢ Midterm Exam
Week 9	10/16	➢ Exercise 31: Lymphatic System
Week 10	10/23	➢ Exercise 33: Respiratory System ➢ Exercise 34: Respiratory Physiology
Week 11	10/30	➢ Exercise 36: Urinary System
Week 12	11/6	➢ Blood Vessels revisited: abdomen and urinary
Week 13	11/13	➢ Exercise 38: Anatomy of the Digestive System ➢ Exercise 39: Digestive Physiology
Week 14	11/20	➢ Exercise 40: Male Reproductive System
Week 15	11/27	➢ Exercise 41: Female Reproductive System and Early Development
Week 16	12/4	➢ Final Exam