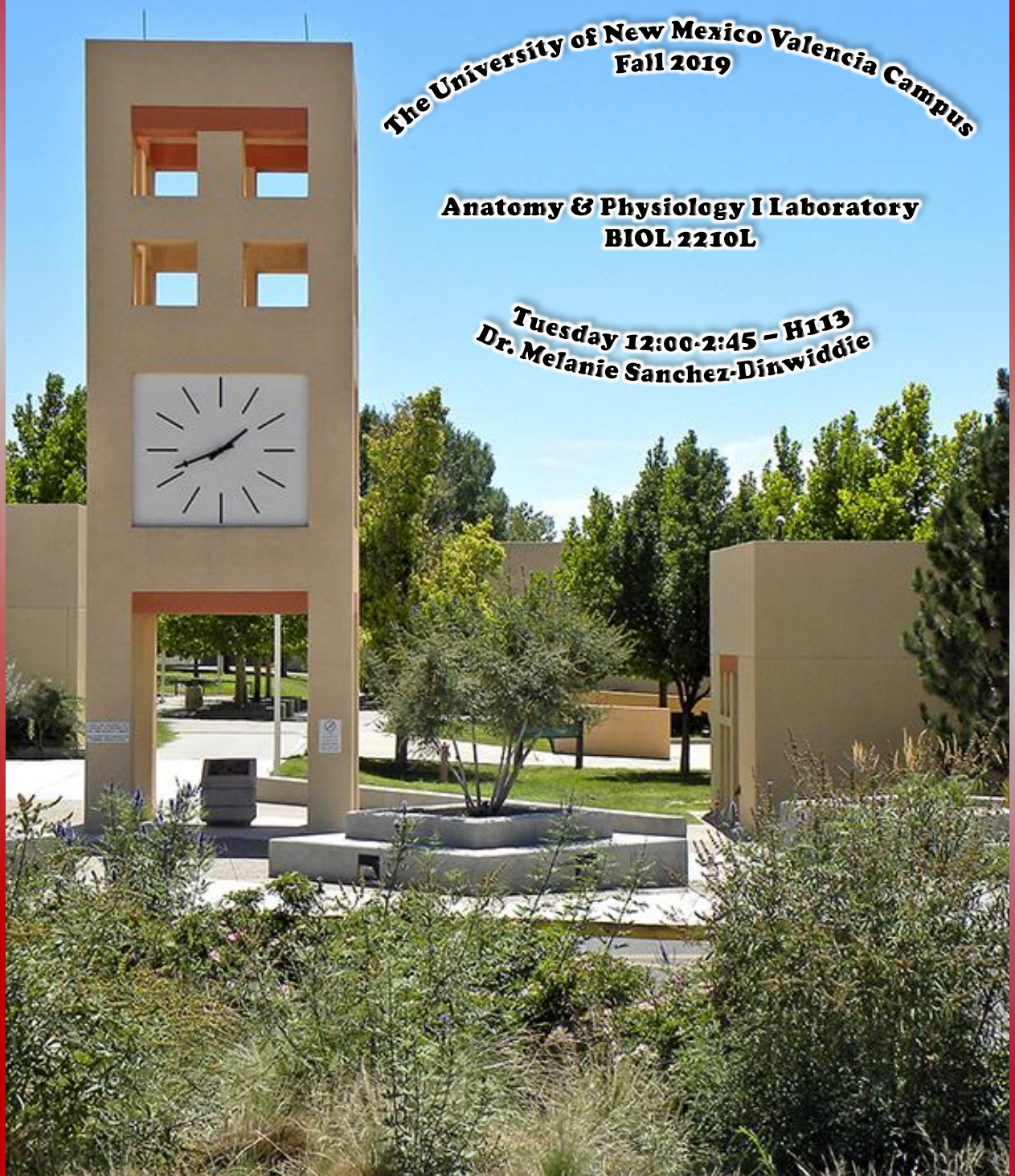




**The University of New Mexico Valencia Campus**  
**Fall 2019**

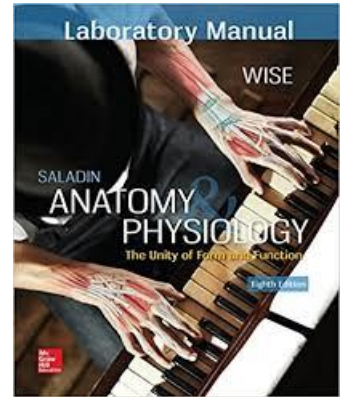
**Anatomy & Physiology I Laboratory**  
**BIOL 2210L**

**Tuesday 12:00-2:45 - H113**  
**Dr. Melanie Sanchez-Dinwiddie**



## Welcome

Welcome to Anatomy & Physiology I Laboratory! This lab is designed to accompany BIOL 2210, the lecture course of Anatomy & Physiology. While both courses cover A&P, in general, the lab will have more anatomy and the lecture will have more physiology. Unfortunately this course will not involve the use of human cadavers. We will have a few dissections throughout the semester.



## Course Description

This is the first 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 integumentary, skeletal, muscle and nervous systems.

### Where's Dr. Sanchez?

Email: [MELASANC@UNM.EDU](mailto:MELASANC@UNM.EDU)

Phone: 925-8875; 925-8600

Office: H100A

### Office Hours

*Mondays 10am-12pm; 1-3pm*

*Wednesdays 10am-12pm*



## Student Learning Objectives

By 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. Analyze the structure of cells, cell membranes, and cell organelles with respect to their respective physiological roles.
5. Identify the anatomical components of human tissues, organs, and organ systems using prepared microscope slides, models, diagrams, and illustrations.
6. Describe the functional characteristics of human tissues, organs, and organ systems using prepared microscope slides, models, diagrams, and illustrations.
7. Analyze the physiological processes of the integumentary, skeletal, muscular, nervous systems and the body's senses.

## 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.

**Cell phones.** As a courtesy to the class, please turn off all cell phones. 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. If I don't catch you, someone else will.

**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 your responsibility to know policies for funding your education. It is your responsibility to maintain funding for your 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. 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.



## Course Policies Continued

**University Policy.** You are responsible for knowing all university policies that are in the UNM Student Handbook – The Pathfinder, <https://pathfinder.unm.edu/>. This includes policy on academic misconduct, 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](https://learn.unm.edu/)). You are responsible for all material distributed here. The due dates and due times are strictly enforced.

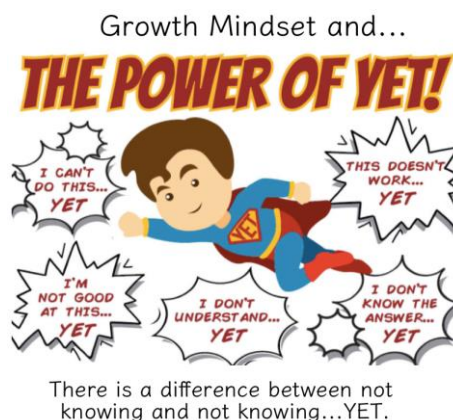
- **Withdrawal.** If you drop the course after the deadline to drop without a grade, Friday, September 6<sup>th</sup>, a grade of W will be given. Students cannot automatically withdraw after Friday, November 8<sup>th</sup>. The grade earned after this date is either a W or F.

## Required Learning Resources

**Lab Manual:** Anatomy & Physiology: The Unity of Form and Function Laboratory Manual by Wise, 2015, 8<sup>th</sup> edition. McGraw Hill Publisher. You will also need access to Anatomy & Physiology Revealed. You will access to APR through McGraw-Hill Connect.

**Anatomy & Physiology Revealed:** 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 237 please see me and I will get you situated.

**Internet:** 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.



## Course Grading Policy

Quizzes will be nearly every other 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 12:00pm, no exceptions. These assignments are graded based on completion and not correctness, usually.

|                      |     |
|----------------------|-----|
| Quizzes (5 of 6)     | 30% |
| Pre-lab APR Homework | 15% |
| Post lab Connect     | 15% |
| Midterm Exam         | 15% |
| Final Exam           | 25% |

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

Grades will be assigned on your percentage as follows:

|            |             |             |            |
|------------|-------------|-------------|------------|
| A+ 97-100  | B+ 87-89.99 | C+ 77-79.99 | D 60-69.99 |
| A 93-96.99 | B 83-86.99  | C 73-76.99  | F Below 60 |
| A- 90-92.9 | B- 80-82.99 | C- 70-72.99 |            |



## 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.
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.

1. To earn credit for this work you must take a Quiz. Click on *Take my Quiz*.
2. Use the instruction in the Learn assignment to take the appropriate quiz.
3. Submit the quiz results as a PDF in the assignment in LEARN.UNM.EDU.



## Weekly Schedule

|        |     |  |
|--------|-----|--|
| Aug 20 | #2  | Organs, Systems, and Organization of the Body      |
| Aug 27 | #3  | Microscopy   |
|        | #5  | Tissues  |
| Sep 3  | #6  | Integumentary System                               |
| Sep 10 | #7  | Introduction to the Skeletal System                |
|        | #8  | Axial Skeleton                                     |
| Sep 17 | #9  | Appendicular Skeleton                              |
| Sep 24 | #10 | Joints   |
| Oct 1  |     | Midterm Exam                                       |
| Oct 8  |     | OFF – FALL BREAK                                   |
| Oct 15 | #11 | Axial Muscles 1: Muscles of the Head and Neck      |
|        | #12 | Axial Muscles 2: Muscles of the Trunk              |
| Oct 22 | #13 | Appendicular Muscles 1: Muscles of the Upper Limb  |
|        | #14 | Appendicular Muscles 2: Muscles of the Lower Limb  |
| Oct 29 | #16 | Nervous Tissue, the Spinal Cord, and Spinal Nerves |
| Nov 5  | #17 | The Brain and Cranial Nerves                       |
| Nov 12 | #19 | Cutaneous Senses                                   |
|        | #20 | Taste and Smell                                    |
| Nov 19 | #21 | Eye and Vision                                     |
|        | #22 | Ear, Hearing, and Equilibrium                      |
| Nov 26 |     | Open Lab   |
| Dec 3  |     | Final Exam   |



## Assignment Schedule

|                               |         |                        |
|-------------------------------|---------|------------------------|
| <input type="checkbox"/> Thur | Aug 22  | Connect Review Week 1  |
| <input type="checkbox"/> Tues | Aug 27  | APR #1                 |
| <input type="checkbox"/> Thur | Aug 29  | Connect Review Week 2  |
| <input type="checkbox"/> Tues | Sept 3  | APR #2 – Quiz #1       |
| <input type="checkbox"/> Thur | Sept 5  | Connect Review Week 3  |
| <input type="checkbox"/> Tues | Sept 10 | APR #3                 |
| <input type="checkbox"/> Thur | Sept 12 | Connect Review Week 4  |
| <input type="checkbox"/> Tues | Sept 17 | APR #4 – Quiz #2       |
| <input type="checkbox"/> Thur | Sept 19 | Connect Review Week 5  |
| <input type="checkbox"/> Tues | Sept 24 | APR #5                 |
| <input type="checkbox"/> Thur | Sept 26 | Connect Review Week 6  |
| <input type="checkbox"/> Tues | Oct 15  | APR #6                 |
| <input type="checkbox"/> Thur | Oct 17  | Connect Review Week 9  |
| <input type="checkbox"/> Tues | Oct 22  | APR #7                 |
| <input type="checkbox"/> Thur | Oct 24  | Connect Review Week 10 |
| <input type="checkbox"/> Tues | Oct 29  | APR #8 – Quiz #4       |
| <input type="checkbox"/> Thur | Oct 31  | Connect Review Week 11 |
| <input type="checkbox"/> Tues | Nov 5   | APR #9                 |
| <input type="checkbox"/> Thur | Nov 7   | Connect Review Week 12 |
| <input type="checkbox"/> Tues | Nov 12  | APR #10 – Quiz #5      |
| <input type="checkbox"/> Thur | Nov 14  | Connect Review Week 13 |
| <input type="checkbox"/> Tues | Nov 19  | APR #11 – Quiz #6      |
| <input type="checkbox"/> Thur | Nov 21  | Connect Review Week 14 |

