



The University of New Mexico Valencia Campus
Spring 2022

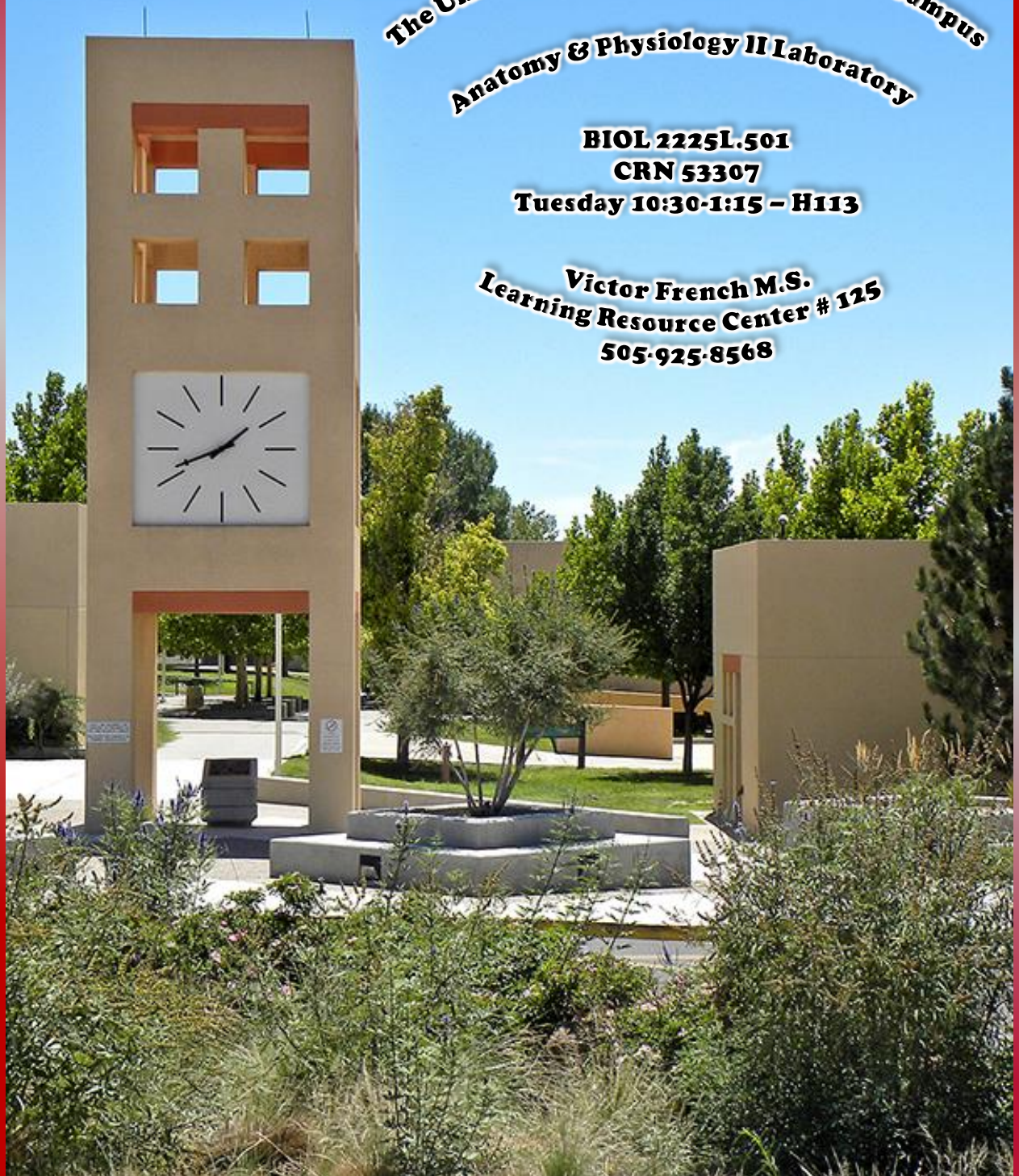
Anatomy & Physiology II Laboratory

BIOL 2225L.501

CRN 53307

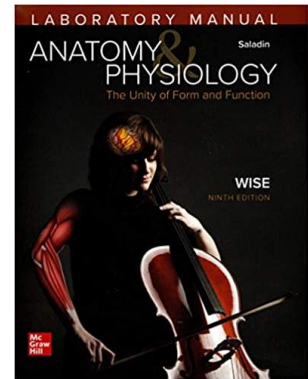
Tuesday 10:30-1:15 - H113

Victor French M.S.
Learning Resource Center # 125
505-925-8568



Welcome

Welcome to Anatomy & Physiology I Laboratory! This face-to-face lab is designed to accompany BIOL 2225, the lecture course for Anatomy & Physiology II. While both courses cover A&P, the lab will generally have more anatomy and the lecture will have more physiology.



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 integumentary, skeletal, muscle and nervous systems.

Where's Mr. French?

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Phone: 925-8568

Office: Learning Resource Center, Rm
125

Drop-in Hours

Mondays 3-4 pm

Thursdays 8-10 am

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. 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.
7. Analyze the physiological processes of fluid and electrolyte balance and acid base balance in the human body.
8. Analyze heredity and genetic control.

Course Policies

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. Lab topics/assignments will not be repeated to accommodate individual students.

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.

Make-up Exams. Make-up exams will only be given at the instructors discretion in verified cases of COVID-19 infection/quarantine. A dated positive test result must be provided to the instructor no later than five days after the date of the exam. Failure to provide a positive test result within the five day window will result in a zero grade for that exam. Only PCR or NAAT tests will be accepted. Mail-order PCR saliva tests are acceptable, such as the test available from the Vault Health. In-home or rapid antigen tests are not acceptable for meeting the testing requirement.

Food and Drink. There will be NO Food or Drink in the lab room. Water bottles are considered a drink.

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

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. FERPA does not allow me to discuss your grade with anybody but yourself.

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 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.

Coronavirus safety. You have the ability to prevent the spread of COVID-19 and to preserve the health of fellow students, your instructor, staff and the community by following UNM health protocols.

1. Attendance in class is mandatory unless excused by the instructor.
2. You will be required to wear a mask at all times.
3. If you have or develop COVID-19 symptoms, please get tested immediately and let your instructor know. Begin a 5-day quarantine.
4. Upon receiving a positive test result, you must immediately report your case on the “self-report portal”. Day zero for purposes of quarantine occurs at the onset of symptoms or if asymptomatic, upon obtaining a positive test result.
5. Wash your hands as you enter class. Wash your hands after you touch materials. And wash your hands before you leave.

More detailed information regarding UNM COVID-19 policies can be found at <https://bringbackthepack.unm.edu/>

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.

- **Withdrawal.** Students cannot automatically withdraw after Friday, September 10th. 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, 9th edition**. McGraw Hill Publisher. You will also need access to *Anatomy & Physiology Revealed*. You will access to APR through McGraw-Hill Connect.

The web link for the McGraw Hill Connect assignments can be found on the Blackboard Learn Course Content Web Page. <https://learn.unm.edu/>

Course Grading Policy

“Connect” Post-lab assignments – 30%
In-Class Quizzes (8 out of 9) – 30%
Midterm – 20%
Final Exam – 20%

Quizzes will occur during class.

There are nine planned quizzes and your lowest quiz grade will be dropped. No “makeup” quizzes will be allowed.

Cadaver Lab

Expectations

1. ONE CADAVER WILL BE USED THIS SEMESTER.
2. CADAVER ANATOMY WILL BE PINNED FOR QUESTIONS ON THE MIDTERM AND FINAL.
3. DURING CLASS WE WILL BE REVIEWING IN GROUPS. NO MORE THAN SIX STUDENTS AT A TIME.
4. ASK IF YOU NEED HELP WITH ANYTHING.
5. YOU ARE RESPONSIBLE TO WRAP AND UNWRAP CADAVERS.

General Rules

1. EXCESS FLUIDS – ASPIRATE USING LINES ON DOWNDRAFT TABLES.
2. MOLD- CHECK AND REPORT TO YOUR INSTRUCTOR
3. COVER INCISION LINES WITH A THIN LAYER OF GAUZE THEN SPRAY WITH WETTING SOLUTION. DON'T FORGET OLD INCISION LINES.
4. CLOSE VINYL BAG. WIPE DOWN.
5. THE LAST THING YOU DO IS DISCARD YOUR GLOVES IN THE TRASH CAN BY THE DOOR. WASH HANDS OUTSIDE. LAB COATS CAN BE REHUNG OR WASHED.

Safety

1. TESTED FOR HIV AND HEPATITIS.
2. HISTORY OF OTHER CONTAGIOUS DISEASE=EXCLUDED (STD, FUNGUS-RINGWORM, PARASITES-GIARDIA, PRIONS, ETC.).
3. NOT 100% SAFE.
4. PRESERVATIVES ARE IRRITATING TO SKIN AND MUCOUS MEMBRANES. WEAR PPE AT ALL TIMES. (GLOVES AND LABCOAT ARE MANDATORY – WE WILL PROVIDE THESE).
5. TIE BACK LONG HAIR. NO OPEN TOED SHOES. ROLL BACK LONG SLEEVES.
6. TAKE AS LITTLE AS POSSIBLE IN. REMOVE NOTHING.
7. USE EYEWASH AT THE SINKS IF SOMETHING GETS IN YOUR EYE OR ON YOUR SKIN.
8. IF WE USE SCALPELS, USE A SCALPEL BLADE REMOVER AND PLACE ALL BLADES IN THE SHARPS CONTAINER.

Weekly Schedule

| <u>Week</u> | <u>Week of</u> | <u>Lab Assignment</u> | <u>McGraw-Hill Connect</u> Due at 10:30 AM on date indicated |
|-------------|----------------|--|--|
| 1 | 1-18-22 | Welcome/Orientation #23 Endocrine System | Due: 1-25-22 |
| 2 | 1-25-22 | #24 Blood #25 Blood Tests and Blood Typing Quiz #1 | Due: 2-1-22 |
| 3 | 2-1-22 | # 26 Anatomy of the Heart # 27 Electrical Conductivity of the Heart Quiz #2 | Due: 2-8-22 |
| 4 | 2-8-22 | #29 Blood Vessels 1 Quiz #3 | Due: 2-15-22 |
| 5 | 2-15-22 | # 30 Blood Vessels 2 Quiz #4 | Due: 2-22-22 |
| 6 | 2-22-22 | # 31 Lymphatic System Quiz #5 | Due: 2-29-22 |
| 7 | 2-29-22 | # 32 Blood Vessels and Blood Pressure Quiz #6 | |
| 8 | 3-8-22 | Midterm Exam | |
| 9 | 3-15-22 | Spring Break! | |
| 10 | 3-22-22 | # 33 Anatomy of the Respiratory System # 34 Respiratory System Physiology | Due: 3-29-22 |
| 11 | 3-29-22 | # 36 Urinary System Quiz #7 | Due: 4-5-22 |
| 12 | 4-5-22 | # 38 Anatomy of the Digestive System | Due: 4-12-22 |
| 13 | 4-12-22 | # 39 Digestive System Physiology Quiz #8 | Due: 4-19-22 |
| 14 | 4-19-22 | #40 Male Reproductive System | Due: 4-26-22 |
| 15 | 4-26-22 | #41 Female Reproductive and Early Development Quiz #9 | |
| 16 | 5-3-22 | Final Exam | |