

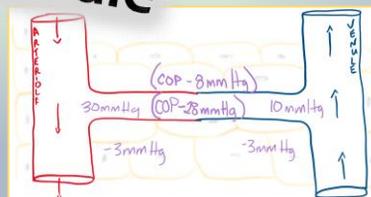
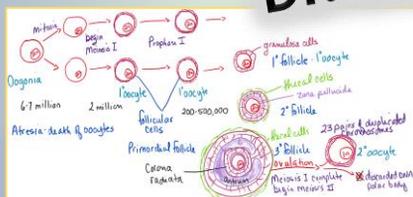
BIOL 2225 – Anatomy & Physiology II

Spring 2021

Tuesday - 9:00-10:15am – H101

Thursday – Online

Dr. Sanchez-Dinwiddie



Greetings Students!

Welcome to Anatomy & Physiology II! I am thrilled to have you enrolled in this course. Taking college courses during a pandemic is no easy feat. Give yourself a pat on the back daily for all you are accomplishing. I have many years of experience under my belt but I am still learning how to manage a course during the strain of a pandemic. I thank you for your patience in advance. I always welcome input from your perspective.

While we are both dealing with additional challenges, our goal is no different. We are here to build a foundation in which your career will reside. A strong foundation of anatomy & physiology is key but only a start. A strong foundation also needs:

- a strong work ethic,
- the ability to perform critical thinking,
- the ability to perform oral and written communication,
- the ability to collaborate, and
- personal and social responsibility.

Choosing a health care field career, now more than ever, is a noble endeavor. You are preparing to care for someone's mother, father, child, friend, or simply someone in need. In the moment that someone looks at you with a plea for help, you will want to be at your best.

Talk to Me Hours

Tuesdays: 1:30 – 6:30

Or: By Appointment

Contact Information

Email: MELASANO@UNM.EDU

Office: H100A

Phone: 925-8875

BIOL 2225: Human Anatomy and Physiology II Course Description

This course is the second of two that serve as an introduction to human anatomy and physiology for biology majors and allied health students. The course entails describing, explaining, and analyzing structure and function from the submicroscopic to the organismal level with emphasis on specific cellular, tissue, and organ structure and physiology, and organ system structure and function; specifically the endocrine, cardiovascular, respiratory, urinary, and reproductive systems. Additionally, an analysis of these concepts is included: fluid and electrolyte balance, pregnancy, growth and development from zygote to newborn, and heredity. Lecture: 3 hours. Prerequisites: BIOL 2210.

Student Learning Objectives

By the end of this course you will be able to.....

- ❖ Identify and describe the major anatomical features of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems.
- ❖ Analyze the physiological roles of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems in maintaining homeostasis in the human body.
- ❖ Explain how fluid and electrolyte balance is maintained in the human body.
- ❖ Compare and contrast the anatomy and physiology of male and female reproductive systems.
- ❖ Describe pregnancy from conception to parturition including human growth and development from zygote to newborn.
- ❖ Explain heredity and genetic control.
- ❖ Develop skills that are used in a health care field setting. These skills include, but are not limited to: analysis of information, communication with peers and supervisors, creativity, problem solving, and self-motivation.



OneNote Anatomy × 13	10%
Video Quizzes × 14	10%
Problem Based Learning × 2	10%
Connect × 22	20%
Organ System Integration × 1	5%
Exam × 4	30%
Final Exam	15%

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	

OneNote Anatomy – For each chapter during the semester you will have anatomy figure(s) you must label in OneNote. Due time is 9:00am.

Video Quiz – Following each video lecture you will take a quiz in Blackboard Learn. The quizzes will be simple, but you will only be able to answer the questions by watching the video. Missed quizzes cannot be made up. Due time is Thursdays, 11:59pm.

Problem Based Learning – You have 2 research papers to write this semester. The research papers will be based on an in-class activity. Due time is 9:00am.

Connect - You have 22 SmartBook assignments in Connect. Each is worth 100 points. Missed assignments cannot be made up. Due time is 9:00am.

Exams - The lowest of 4 exams will be dropped. All exams will be a table exam. I will create the groups for the exams. The groups may be different each exam. Missed exams cannot be made up.

Final Exam - Students with an A- or higher prior to the final exam will not be required to take the exam. This is entirely the decision of Dr. Sanchez whether a student is taking a final exam or not. A missed final exam cannot be made up.

* A course grade of C- is a non-passing grade. You will have to repeat the course with a grade of C- or lower.

There are extra credit assignments in Connect (see schedule for due dates). I will not assign a point value to extra credit assignments. I will not add extra credit to your grade calculation until **AFTER** the final exam. You may not pass the class with extra credit. There is no other extra credit opportunity available.

Monitor your grade in Black Board Learn. I make mistakes, but cannot correct errors the last week of classes.

Due to the ongoing pandemic, grading policies may change.

Required Learning Resources

Internet: We 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. We will need to keep our electronic device updated, especially the browser. Issues with electronics will not be an excuse for missed assignments. UNM Valencia has devices you may check out. UNM Valencia provides WIFI around the clock.



OneNote: You have access to class notes at all times. You have assignments throughout the semester in OneNote. OneNote is a Microsoft Office product you must access OneNote. As a student, you receive this product in the Microsoft Suite.

Textbook: You will need access to McGraw-Hill's 'Connect.' There are access codes available in the UNM- Valencia bookstore. This access code will give you the e-book. With access you will be able to upgrade to a print copy if you wish. These access codes are valid for 2 semesters. Saladin, Kenneth S. Anatomy & Physiology: The Unity of Form and Function. McGraw-Hill, 9th ed., 2021. The link for accessing our class is located in the menu of Blackboard Learn.

UNM Learn learn.unm.edu: All course materials will be distributed through Blackboard Learn. Grades will be recorded in Learn.



Course Policies/Information

- **Academic Calendar.** The academic calendar for Spring 2021 currently has no alterations.

- **Attendance.** I do not recognize an excused absence versus an unexcused absence. You are either here or not, even if it is a valid excuse. If you have to miss class you are responsible for acquiring the information covered in class. Please refer to your syllabus or contact fellow students for the information you missed. If you recall, one of the essential skills to success is personal and social responsibility. Attendance in a course is part of that skill. This includes arriving on time (5 minutes early is even better). I will be recording attendance diligently. This is serving as a form of contact tracing.

- **Cell phones.** Be courteous. When your phone is out everyone knows. An interesting observation I've made over the years, a high-performing student does not have a cell phone visible.

Course Policies/Information

- **Coronavirus.** 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. The UNM Provost Administrative Directive on Mandatory Student Face Covering and Symptom Reporting of July 9, 2020 requires that all students on UNM-Main and UNM branch campuses wear face masks in the face-to-face classroom and on campus unless they have a specific mask accommodation (confidentially documented with the Accessibility Resource Center). UNM Provost Administrative Directive is consistent with Governor Lujan Grisham's Public Health Emergency Order as amended, and the Public Health Order of the New Mexico Health Secretary. It also requires daily participation in symptom screening through covidscreen, which will be sent via UNM e-mail. You will be required to wear a mask at all times.
- **Email Netiquette.** In this day and age it is easy to be lax with your email language, grammar, and punctuation. Especially when using a cell phone for communication. This course is a formal and professional setting and so you should conduct yourself in that manner at all times. When writing an email avoid shorthand. Always use an appropriate subject heading; do not leave this blank. Use an appropriate salutation and closing. Some examples are "Dear Dr. Sanchez," "Good Morning Dr. Mel," or "Hello Dr. Sanchez-Dinwiddie," and "Thank you for your time," or "Have a nice day." Finally proofread and spell check. Having good email etiquette will benefit you as you continue your professional career.
- **Exams.** Exams will be difficult. Each exam is designed to test your ability to apply information. Exams will accumulate. I will ask questions from Exam #1 on Exam #2. There are no make-up exams. This penalty is not enforced if you make arrangements with the instructor prior to the exam. All material from the textbook is fair game for exam material. Don't panic, nearly all of the exam material will be derived from in-person lectures and video lectures. The final exam is in-person Thursday, May 13, 9:00-11:00am.
- **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. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA does not allow disclosure of grades over email as it is not possible to authenticate identity through this medium. In addition, I will not discuss your grade with anybody but you.



- **Hybrid Course.** This course will meet in-person on Tuesdays. For the second day of the week I will be posting videos you must watch at your convenience. Due to the pandemic this may change at some point in the semester. If we are forced to change modality there will also be a change in grading policy and schedule.
- **Late work.** I will accept research papers late, for a reduced grade, up to one week following the due date. Do not earn zeros. Zeros are nasty for your course grade. *All remaining assignments must be completed by the due date and time.*
- **Lecture videos.** You have 15 lecture videos to watch. Each lecture will be divided into several shorter videos. My goal is to have 4-5 videos at 10 minutes each. As you watch the video take notes with annotation. I expect you to remember, understand, and apply the information I am presenting. Many of the videos have been recorded across the last year. Keep this in mind, as there are times that I mention dates that do not pertain to this semester.
- **Participation during class.** I do not formally record participation, but I notice who is engaged and who is not.
- **Screen reader.** If you require a screen reader, please see me immediately so that I can accommodate materials for you.
- **Students with disabilities.** Qualified students (having appropriate documentation) needing academic adjustments, please discuss your situation with me as soon as possible, to ensure that your needs are met in a timely manner. All accommodations will be implemented within a reasonable manner.
- **Technology.** Like many of you, I live in a rural location. A good deal of the work I will be doing for this course will be from a remote location. I have managed much of the technology issues, however there may some that remain. Please communicate any difficulties you are experiencing with this course.
- **University Policy.** You are responsible for knowing all university policies that are in the UNM Student Handbook <https://pathfinder.unm.edu/>. This includes policy on academic dishonesty, code of conduct, and grade options. *You are responsible for maintaining your scholarship or funding for your education.*
- **Withdrawal.** If a student drops the course after the deadline to drop without a grade, Friday, February 5th, a grade of W will be given. Students cannot automatically withdraw after Friday, April 16th. The grade earned after this date is a letter grade.

Date	Week	Location	Description
Tuesday 1/19	#1	Online	Ch 17 – The Endocrine System
Thursday 1/21		Online	Ch 17 – The Endocrine System
Tuesday 1/26	#2	H101	Ch 18 – The Circulatory System: Blood
Thursday 1/28		Online	Ch 18 – The Circulatory System: Blood
Tuesday 2/2	#3	H101	EXAM #1
Thursday 2/4		Online	Ch 19 – The Circulatory System: Heart
Tuesday 2/9	#4	H101	Ch 19 – The Circulatory System: Heart
Thursday 2/11		Online	Ch 20 – The Circulatory System: Blood Vessels
Tuesday 2/16	#5	H101	❖ Problem Based Learning #1
Thursday 2/18		Online	Ch 20 – The Circulatory System: Blood Vessels
Tuesday 2/23	#6	H101	EXAM #2
Thursday 2/25		Online	Ch 21 – The Lymphatic and Immune Systems
Tuesday 3/2	#7	H101	Ch 21 – The Lymphatic and Immune Systems
Thursday 3/4		Online	Ch 22 – The Respiratory System
Tuesday 3/9	#8	H101	Ch 22 – The Respiratory System
Thursday 3/11		Online	Ch 23 – The Urinary System
Tuesday 3/16	#9		Off --- Spring Break
Thursday 3/18			Off --- Spring Break
Tuesday 3/23	#10	H101	❖ Problem Based Learning #2
Thursday 3/25		Online	Ch 23 – The Urinary System
Tuesday 3/30	#11	H101	Ch 24 – Fluid, Electrolyte, and Acid/Base Balance
Thursday 4/1		Online	Ch 24 – Fluid, Electrolyte, and Acid/Base Balance
Tuesday 4/6	#12	H101	EXAM #3
Thursday 4/8		Online	Ch 25 – The Digestive System
Tuesday 4/13	#13	H101	Ch 25 – The Digestive System
Thursday 4/15		Online	Ch 27 – The Male Reproductive System
Tuesday 4/20	#14	H101	Ch 28 – The Female Reproductive System
Thursday 4/22		Online	Ch 28 – The Female Reproductive System
Tuesday 4/27	#15	H101	Ch 29 – Human Development and Aging
Thursday 4/29		Online	Ch 4 – Genes and Cellular Function
Tuesday 5/4	#16	H101	EXAM #4
Thursday 5/6		Online	❖ Organ System Integration Assignment

Date	Connect – due 9:00am	OneNote Anatomy – 9:00am	Video Quiz – BB
Tues 1/19			
Thurs 1/21	<input type="checkbox"/> #1 – The Endocrine System		<input type="checkbox"/> #1 – 11:59pm
Tues 1/26	<input type="checkbox"/> #2 – Circulatory System: Blood	<input type="checkbox"/> #1 – The Endocrine Sys	
Thurs 1/28	<input type="checkbox"/> #3 – Circulatory System: Blood		<input type="checkbox"/> #2 – 11:59pm
Tues 2/2	<input type="checkbox"/> Extra Credit #1 Due	<input type="checkbox"/> #2 – Circ: Blood	
Thurs 2/4	<input type="checkbox"/> #4 – The Circulatory System: Heart		<input type="checkbox"/> #3 – 11:59pm
Tues 2/9	<input type="checkbox"/> #5 – The Circulatory System: Heart	<input type="checkbox"/> #3 – Circ: Heart	
Thurs 2/11	<input type="checkbox"/> #6 – The Circulatory System: BV		<input type="checkbox"/> #4 – 11:59pm
Tues 2/16			
Thurs 2/18	<input type="checkbox"/> #7 – The Circulatory System: BV		<input type="checkbox"/> #5 – 11:59pm
Tues 2/23	<input type="checkbox"/> Extra Credit #2 Due	<input type="checkbox"/> #4 – Circ: Blood Vessels	
Thurs 2/25	<input type="checkbox"/> #8 – The Lymphatic and Immune		<input type="checkbox"/> #6 – 11:59pm
Tues 3/2	<input type="checkbox"/> #9 – The Lymphatic and Immune	<input type="checkbox"/> #5 – Lymph & Immune	
Thurs 3/4	<input type="checkbox"/> #10 – The Respiratory System		<input type="checkbox"/> #7 – 11:59pm
Tues 3/9	<input type="checkbox"/> #11 – The Respiratory System	<input type="checkbox"/> #6 – The Respiratory Sys	
Thurs 3/11	<input type="checkbox"/> #12 – The Urinary System		<input type="checkbox"/> #8 – 11:59pm
Tues 3/16			
Thurs 3/18			
Tues 3/23		<input type="checkbox"/> #7 – The Urinary Sys	
Thurs 3/25	<input type="checkbox"/> #13 – The Urinary System		<input type="checkbox"/> #9 – 11:59pm
Tues 3/30	<input type="checkbox"/> #14 – Fluid, Electrolyte, and Ph	<input type="checkbox"/> #8 – Fluid, Electro, Ph	
Thurs 4/1	<input type="checkbox"/> #15 – Fluid, Electrolyte, and Ph		<input type="checkbox"/> #10 – 11:59pm
Tues 4/6	<input type="checkbox"/> Extra Credit #3 Due	<input type="checkbox"/> #9 – Digestive Sys	
Thurs 4/8	<input type="checkbox"/> #16 – The Digestive System		<input type="checkbox"/> #11 – 11:59pm
Tues 4/13	<input type="checkbox"/> #17 – The Digestive System	<input type="checkbox"/> #10 – Male Reproductive	
Thurs 4/15	<input type="checkbox"/> #18 – The Male Reproductive Sys		<input type="checkbox"/> #12 – 11:59pm
Tues 4/20	<input type="checkbox"/> #19 – The Female Reproductive Sys	<input type="checkbox"/> #11 – Female Reproductive	
Thurs 4/22	<input type="checkbox"/> #20 – The Female Reproductive Sys		<input type="checkbox"/> #13 – 11:59pm
Tues 4/27	<input type="checkbox"/> #21 – Human Development & Aging	<input type="checkbox"/> #12 – Human, Devel, Aging	
Thurs 4/29	<input type="checkbox"/> #22 – Genetics		<input type="checkbox"/> #14 – 11:59pm
Tues 5/4	<input type="checkbox"/> Extra Credit #4 Due	<input type="checkbox"/> #13 - Genetics	
Thurs 5/6			