

**UNM Valencia Campus
Anatomy & Physiology II – BIOL 2225
Fall 2022
Tuesday and Thursday
1:30 – 2:45 H101**

Dr. Sanchez-Dinwiddie

NM VALENCIA

Welcome



Greetings Students, welcome to Anatomy & Physiology II! I am thrilled to have you here. I have a passion for teaching this course and it is my goal to help you learn anatomy and physiology of the human body in a way that you understand concepts deeply. This means I will challenge you and maintain expectations very high. And why would I do this? Absolutely not to be mean and difficult. You have ambitions of being a healthcare provider. If you are going to be caring for sons and daughters, mothers and fathers, grandmas and grandpas, or neighbors and friends I want each of those people to be in the care of capable, prepared, and skillful individuals.

What is it you need to be capable, prepared, and skilled? A strong foundation of anatomy & physiology is key but only a start. You need -

- a strong work ethic,
- the ability to critically think and problem solve,
- the ability to perform oral and written communication,
- the ability to collaborate, and
- personal and social responsibility.



Talk to Me Time

This is time I have set aside for you. I am available for any discussions science related. It can be directly related to our course or not.

- **Tuesday 10:30-12:30**
- **Wednesday 10:30-12:30**
- **Thursday 10:30-12:30**
- **By scheduled appointment**

I will be in my office during these designated times. You may simply drop in, no need for an appointment. If you would rather meet virtually, just let me know and I'll see you on Zoom.

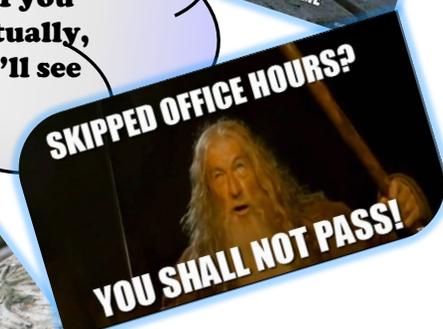


Contact Information

Email: MELASANC@UNM.EDU

Office: H100A

Phone: 505-925-8875



BIOL 2225: Human Anatomy and Physiology II

Catalog 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 Outcomes

These learning outcomes are determined by the New Mexico Higher Education Department. In order for the course to meet the standards of the Course Numbering System, all of these learning outcomes must be adopted.

- ❖ 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.
- ❖ 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.

NEW MEXICO
HIGHER EDUCATION
DEPARTMENT



Fostering Student Success from Cradle to Career

Connect	10 %
OneNote Assignments	10 %
Hexagonal Thinking Assignments	30 %
Exams	30 %
Final Exam	20 %

Grades will be assigned on your percentage as follows: * C- is non-passing

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	

Connect. You have 2 types of assignments in McGraw-Hill Connect. You have SmartBook assignments which are designed to help you read through the chapter prior to lecture. There are 19 total assignments. You need 16 of 19 for 100%.

There is also extra credit for the course 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.

OneNote Assignments. *Following the completion of each chapter, you have assignments in Microsoft OneNote. You must sync with our class to sync your assignment to me. I will grade these assignments based on thoroughness. I expect to see thought and effort. There are 12 total assignments. You need 10 of 12 for 100%.*

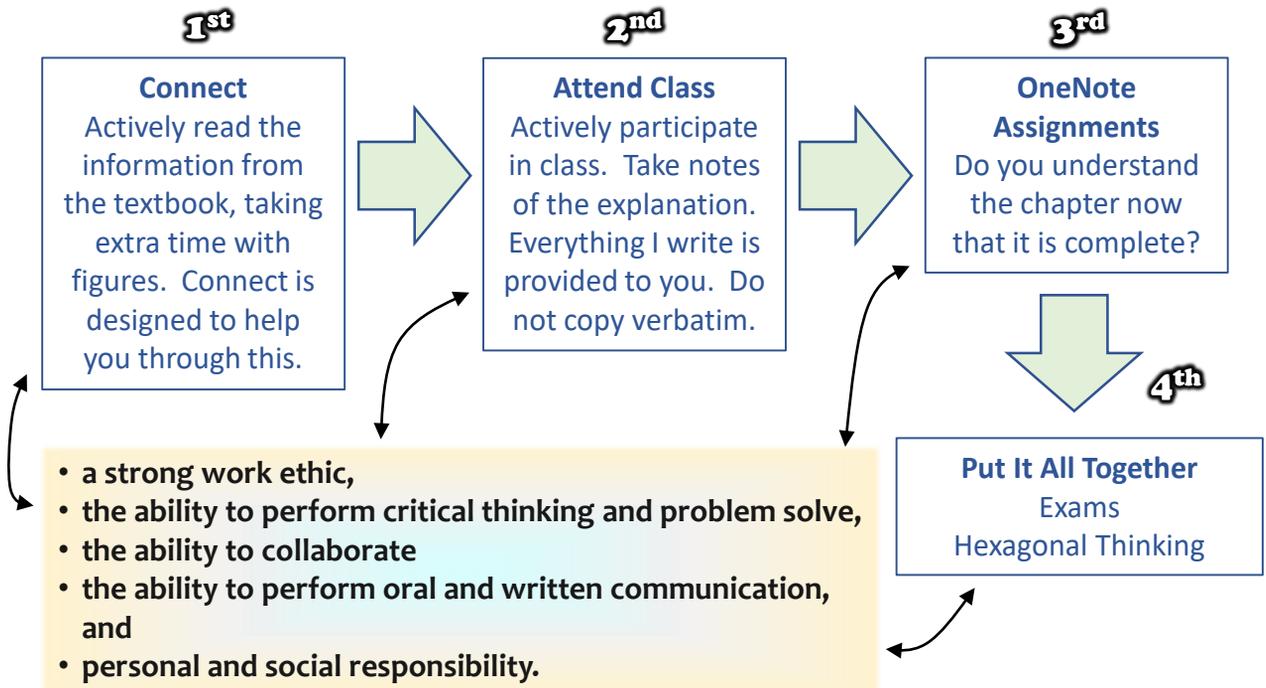
Hexagonal Thinking Assignments. These assignments will have 2 components: an in-class activity and a report. These assignments will challenge your ability to think critically, integrate concepts, and problem solve. You have 3 total assignments. You need 3 of 3 for 100%.

Exams. There will be 4 exams throughout the semester. Each exam will be a “table exam.” I will create the groups for each table. You will drop your lowest score from your overall grade calculation. This includes zeros. Thus, if you must miss an exam you will not be penalized.

Final Exam. The final exam is scheduled for Thursday, December 15. Students who have a 90% or higher on December 9th will be eligible for a final exam exemption. This is entirely at the discretion of me, Dr. Sanchez.

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

How to Succeed



Required Learning Resources

Textbook: You will need access to McGraw-Hill's 'Connect.' 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 Canvas, OneNote and here.](#)
- ISBN: 978-1-260-79162-4



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

UNM Canvas: All course materials will be distributed through Canvas. Grades will be recorded in Canvas. Canvas is new to UNM. Please bear with me as I learn this new program.

Internet: You will need reliable and frequent internet access. 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. Issues with electronics will not be an excuse for missed assignments.



Course Policies/Information

(in no particular order; they are alphabetical)

- **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.
- **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.
- **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.
 - ❖ Protocol as of 8/15/2022 for vaccinated individuals testing positive provided by the [Centers for Disease Control \(CDC\) Guidelines](#) [NO quarantine for exposure]:
 1. Provide documentation to me via email (you are not exempt from assignments)
 2. Isolate for 5 days – Day 0 is either onset of symptoms or the day you tested (not the day you receive positive results).
- **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 use proper sentence structure, grammar, and avoid shorthand. Always use an appropriate subject heading; do not leave this blank. Use an appropriate salutation and closing. 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. 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. There are no make-up exams for any reason.
- **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.



Course Policies/Information

- **Late work.** I aim to prepare you for your career outside these classrooms and hallways. Life is often busy and hectic. Developing good work ethic means to juggle all of your responsibilities. Your patients, colleagues, and coworkers deserve for you to have a skill of being on-time. I have built in a cushion to all the assignments if you must miss. Hexagonal Thinking is the only assignment I will accept late, albeit with a penalty.
- **Modality.** This is a three credit-hour course. Class meets for two 75-minute sessions of direct instruction for sixteen weeks during the Fall 2022 semester. Please plan for a *minimum* of six hours of out-of-class work (or homework, study, assignment completion, and class preparation) each week.
- **Participation during class.** I do not formally record participation, but I notice who is engaged and who is not.
- **Students with disabilities.** Qualified students (having appropriate documentation) needing academic adjustments, please discuss your situation with me as soon as possible. All accommodations will be implemented within a reasonable manner.
- **Title IX.** Our classroom and our university should always be spaces of mutual respect, kindness, and support, without fear of discrimination, harassment, or violence. Should you ever need assistance or have concerns about incidents that violate this principle, please access the resources available to you on campus. Please note that, because UNM faculty, TAs, and GAs are considered "responsible employees" by the Department of Education, any disclosure of gender discrimination (including sexual harassment, sexual misconduct, and sexual violence) made to a faculty member, TA, or GA must be reported by that faculty member, TA, or GA to the university's Title IX coordinator. For more information on the campus policy regarding sexual misconduct, please see: <https://policy.unm.edu/university-policies/2000/2740.html>.
- **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, September 9th, a grade will be recorded. Students cannot automatically withdraw after Friday, November 11th. I generally do not grant withdrawals after this date.

**D
a
i
l
y

S
c
h
e
d
u
l
e**

Date	Location	Description
Tues Aug 23	H101	Welcome
Thur Aug 25	H101	Ch 17 – The Endocrine System
Tues Aug 30	H101	Ch 18 – The Circulatory System: Blood
Thur Sept 1	H101	Ch 18 – The Circulatory System: Blood
Tues Sept 6	H101	Ch 19 – The Circulatory System: Heart
Thur Sept 8	H101	Ch 19 – The Circulatory System: Heart
Tues Sept 13	H101	EXAM #1
Thur Sept 15	H101	Ch 20 – The Circulatory System: Blood Vessels
Tues Sept 20	H101	Ch 20 – The Circulatory System: Blood Vessels
Thur Sept 22	H101	❖ Hexagonal Thinking #1
Tues Sept 27	H101	Ch 21 – The Lymphatic and Immune Systems
Thur Sept 29	H101	Ch 21 – The Lymphatic and Immune Systems
Tues Oct 4	H101	Ch 22 – The Respiratory System
Thur Oct 6	H101	Ch 22 – The Respiratory System
Tues Oct 11	TBD	❖ Hexagonal Thinking #1 (make-up day)
Thur Oct 13	H101	<i>Off – Fall Break</i>
Tues Oct 18	H101	EXAM #2
Thur Oct 20	H101	Ch 23 – The Urinary System
Tues Oct 25	H101	Ch 23 – The Urinary System
Thur Oct 27	H101	Ch 24 – Fluid, Electrolyte, and Acid/Base Balance
Tues Nov 1	H101	Ch 24 – Fluid, Electrolyte, and Acid/Base Balance
Thur Nov 3	H101	❖ Hexagonal Thinking #2
Tues Nov 8	H101	Ch 25 – The Digestive System
Thur Nov 10	TBD	❖ Hexagonal Thinking #2 (make-up day)
Tues Nov 15	H101	EXAM #3
Thur Nov 17	H101	Ch 27 – The Male Reproductive System
Tues Nov 22	H101	Ch 28 – The Female Reproductive System
Thur Nov 24	H101	<i>Off – Thanksgiving Break</i>
Tues Nov 29	H101	Ch 29 – Human Development and Aging
Thur Dec 1	H101	❖ Hexagonal Thinking #3
Tues Dec 6	H101	EXAM #4
Thur Dec 8	TBD	❖ Hexagonal Thinking #3 (make-up day)
Thur Dec 15	H101	FINAL EXAM

Date	Connect	OneNote	Hexagonal Thinking Due
Tues Aug 23			
Thur Aug 25	#1 – The Endocrine System		
Tues Aug 30	#2 – Circulatory System: Blood	#1 – The Endocrine System	
Thur Sept 1	#3 – Circulatory System: Blood		
Tues Sept 6	#4 – The Circulatory System: Heart	#2 – Circulatory: Blood	
Thur Sept 8	#5 – The Circulatory System: Heart		
Tues Sept 13	Extra Credit #1 Due	#3 – Circulatory: Heart	
Thur Sept 15	#6 – The Circulatory System: BV		
Tues Sept 20	#7 – The Circulatory System: BV		
Thur Sept 22		#4 – Circulatory: Blood Vessels	
Tues Sept 27	#8 – The Lymphatic and Immune		
Thur Sept 29	#9 – The Lymphatic and Immune		
Tues Oct 4	#10 – The Respiratory System	#5 – Lymph & Immune	
Thur Oct 6	#11 – The Respiratory System		
Tues Oct 11		#6 – Respiratory Sys.	Hex. Assign. #1
Thur Oct 13			
Tues Oct 18	Extra Credit #2 Due		
Thur Oct 20	#12 – The Urinary System		
Tues Oct 25	#13 – The Urinary System		
Thur Oct 27	#14 – Fluid, Electrolyte, and Ph	#7 – Urinary System	
Tues Nov 1	#15 – Fluid, Electrolyte, and Ph		
Thur Nov 3		#8 – Fluid, Electro, Ph	
Tues Nov 8	#16 – The Digestive System		
Thur Nov 10		#9 – Digestive System	Hex. Assign. #2
Tues Nov 15	Extra Credit #3 Due		
Thur Nov 17	#17 – The Male Reproductive Sys		
Tues Nov 22	#18 – The Female Reproductive Sys	#10 – Male Reproductive	
Thur Nov 24			
Tues Nov 29	#19 – Human Development & Aging	#11 – Female Reproductive	
Thur Dec 1		#12 – Human, Dev, Aging	
Tues Dec 6	Extra Credit #4 Due		
Thur Dec 8			Hex. Assign. #3