

**UNM Valencia Campus  
Anatomy & Physiology II - BIOL 2225  
Spring 2020 - Tuesday/Thursday 9:00-10:15  
H101**

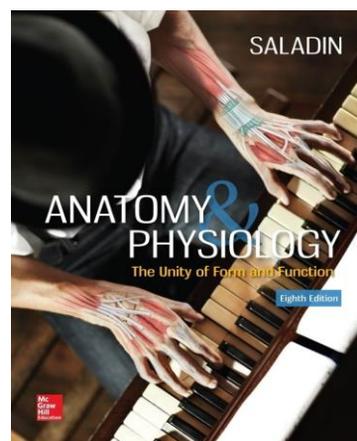
**Dr. Sanchez-Dinwiddie**



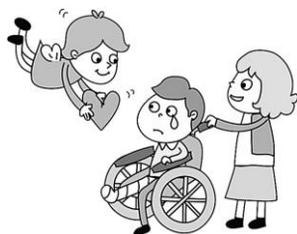
# Welcome

Welcome to Anatomy & Physiology! Some of you I have seen before and some of you are new. Either way I am looking forward to getting to know you. I am excited for you to be here. I am passionate about teaching and I hope this class is fun, engaging, and inspirational. My goal as a teacher goes beyond the science of anatomy and physiology. Anatomy and physiology are key topics, for they lay the foundation in which your health career will reside, but a stronger foundation involves:

- a strong work ethic,
- the ability to perform critical thinking,
- efficient oral and written communication, and
- competent problem solving ability.



This class is not going to be easy. It will frustrate you and exhaust you at times, but I hope you realize the value in your hard work. You are not simply studying and learning for a grade, you are learning for your patient. Your patient is not an exam or grade. Your patient is someone's mother, child, friend, or simply someone in need. As a health care provider you hold another person's world in your hands and in that moment you will want to know every detail about their medical needs to help.



## **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.

### **Office Hours**

Monday 1-3pm\*  
Tuesday/Thursday 10:30-11:30  
Wednesday 10am-12pm  
\*In STEM Center

### **Contact Information**

Email: MELASANC@UNM.EDU  
Phone: 925-8875 or 925-8600  
Office: H100A

## 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.



## Required Learning Resources

**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.



**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, 8th ed., 2018.

**UNM Learn [learn.unm.edu](http://learn.unm.edu):** All course materials will be distributed through Blackboard Learn. Grades will be recorded in Learn.

## **Course Policies/Information**

- **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. I do not formally record attendance. That does not mean I do not notice when you are missing.
- **Cell phones.** Be courteous. When your phone is out everyone knows. Especially if you get a poor exam grade.
- **Email Netiquette.** In this day and age it is easy to be lax with your email language, grammar, and punctuation. 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.” When you enter your career of choice appropriate titles are appreciated. 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. In the case of a legitimate missed exam, the make-up must be completed prior to the next class meeting.
- **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.
- **Late work.** I will accept late work, for a reduced grade, up to one week following the due date. Do not earn zeros. Zeros are nasty for your course grade. This is only valid for your two research papers.
- **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) with disabilities needing academic adjustments should contact the instructor by the end of the 1<sup>st</sup> week of the semester to ensure that your needs are met in a timely manner.

- **Talking during class.** Don't do it! This is incredibly disrespectful to your classmates and myself.
- **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 7<sup>th</sup>, a grade of W will be given. Students cannot automatically withdraw after Friday, April 10<sup>th</sup>. The grade earned after this date is a letter grade.

<b>Connect<sup>1</sup></b>	<b>20%</b>
<b>Problem Based Learning</b> 2 research papers	<b>20%</b>
<b>Exam 1-5</b>	<b>40%</b>
<b>Final Exam</b>	<b>20%</b>

## Course Grading Policy

The lowest of 5 exams will be dropped. Students with an A- or higher prior to the final exam will not be required to take the exam. These students are required to take all 5 exams and receive 60% or higher. An 89.99% is non-exempt.

<sup>1</sup> You have 21 LearnSmart assignment in Connect. Each is worth 100 points. Your grade will be calculated out of 2000 points. You cannot earn above 100% in your Connect grade.

<sup>2</sup> 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.

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	<sup>2</sup> C- 70-72.99	

## Weekly Schedule

Jan 21		Welcome
Jan 23	Ch 17	Endocrine System
Jan 28	Ch 17	Endocrine System
Jan 30	Ch 18	Blood
Feb 4	Ch 18	Blood
Feb 6	Ch 20	Blood Vessels
Feb 11		Exam #1
Feb 13	Ch 19	Heart
Feb 18	Ch 19	Heart
Feb 20	Ch 21	Lymph/Immune
Feb 25	Ch 21	Lymph/Immune
Feb 27		Problem Based Learning
Mar 3		PBL Cont.
Mar 5		Exam #2
Mar 10	Ch 22	Respiratory
Mar 12	Ch 22	Respiratory
Mar 17/19		<i>Spring Break</i>
Mar 24	Ch 23	Urinary
Mar 26	Ch 23	Urinary
Mar 31		PBL
Apr 2		Exam #3
Apr 7	Ch 24	Fluid, Electrolyte, Ph Balance
Apr 9	Ch 24	Fluid, Electrolyte, Ph Balance
Apr 14	Ch 25	Digestive
Apr 16	Ch 26	Nutrition & Metabolism
Apr 21		Exam #4
Apr 23	Ch 27	Male Reproductive
Apr 28	Ch 28	Female Reproductive
Apr 30	Ch 29	Human Development
May 5	Ch 4	Genetics
May 7		Exam #5
May 14		Final Exam – 9:00-11:00



## Assignment Schedule

Jan 23	9:00am	LearnSmart #1
Jan 28	9:00am	LearnSmart #2
Jan 30	9:00am	LearnSmart #3
Feb 4	9:00am	LearnSmart #4
Feb 6	9:00am	LearnSmart #5
Feb 11	9:00am	#1 Extra Credit Due
Feb 13	9:00am	LearnSmart #6
Feb 18	9:00am	LearnSmart #7
Feb 20	9:00am	LearnSmart #8
Feb 25	9:00am	LearnSmart #9
Mar 5	9:00am	#2 Extra Credit Due
Mar 10	9:00am	LearnSmart #10
Mar 12	9:00am	LearnSmart #11 PBL Paper #1 Due
Mar 24	9:00am	LearnSmart #12
Mar 26	9:00am	LearnSmart #13
Apr 2	9:00am	#3 Extra Credit Due
Apr 7	9:00am	LearnSmart #14
Apr 9	9:00am	LearnSmart #15 PBL Paper #2 Due
Apr 14	9:00am	LearnSmart #16
Apr 16	9:00am	LearnSmart #17
Apr 21	9:00am	#4 Extra Credit Due
Apr 23	9:00am	LearnSmart #18
Apr 28	9:00am	LearnSmart #19
Apr 30	9:00am	LearnSmart #20
May 5	9:00am	LearnSmart #21
May 7	9:00am	#5 Extra Credit Due