



Human Anatomy and Physiology I (PSIO 201)

Course Syllabus

Course Description:

In PSIO 201, students will study the structure and function of the human body. Topics include basic anatomical and directional terminology; fundamental concepts and principles of cell physiology; histology; the integumentary, skeletal, muscular, and nervous systems; and the general and special senses. Course activities include lectures and laboratory sessions. Course assessments include in-lab quizzes, lab participation, lab practicals, and lecture exams as well as online pre-labs, SmartBook assignments, and lecture quizzes.

Course Format and Delivery Method:

This is an in-person course.

Course Prerequisites:

There are no prerequisites for enrollment in PSIO 201.

NOTE TO STUDENTS: If your major is Physiology and Medical Sciences, *you must earn a C or better in PSIO 201 and PSIO 202* to subsequently register for upper division PSIO courses.

Course Director	Course Instructors		Lab Coordinator
Allyson Roof, PhD Dept. of Physiology Office: Gittings 117 Phone: (520) 621-4803 Email: arroof@arizona.edu	Allyson Roof, PhD Dept. of Physiology Office: Gittings 117 Phone: (520) 621-4803 Email: arroof@arizona.edu	Claudia Stanescu, PhD Dept. of Physiology Gittings 108 (520) 621-2795 stanescu@arizona.edu	Joseph Agosttini, MS, MLS Dept. of Physiology Office: Gittings 3A Phone: (520) 621-0733 Email: jagosttini6@arizona.edu

Graduate Teaching Assistants (TAs)	
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Office Hours:

Office hours for instructors and TAs can be found on D2L.

Problem Solving:

If you have a problem, question, or concern, *the first person to contact is your TA*. If the problem cannot be resolved with your TA, please contact Dr. Roof (arroof@arizona.edu).

Course Time Commitments and Participation:

PSIO 201 is a 4-unit course. University policy [defines one unit of credit](#) as at least 45 hours of combined in-class and out-of-class work. Therefore, in attending lecture, participating in labs, completing assignments, preparing for and taking assessments, and communicating with instructors, ***you should expect to spend approximately 180 hours in total throughout the semester.*** Although coursework varies week-to-week, this amounts to an average of 12 hours per week. Frequent interaction with course material is essential to student success in this course.

Course Objectives

This course includes the following topics:

1. Structure, function, and organization of the various organ systems of the human body
2. Basic anatomical and directional terminology
3. Fundamental concepts and principles of cell physiology
4. Human tissue histology
5. Anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems
6. The general and special senses

Expected Learning Outcomes:

Upon completion of this course, students should be able to:

1. Identify the structure, organization, and function of the various organ systems of the human body and explain what happens if these systems do not function properly
2. Describe the structure and function of the components of a cell and apply basic concepts of chemistry
3. Identify primary and specific tissue types and their functions
4. Identify the components of the skeletal system and their functions; describe bone growth and remodeling throughout the life span
5. Identify the components of the muscular system and their organization and function; compare and contrast skeletal muscle tissue with cardiac and smooth muscle tissues
6. Describe the structures and functions of the nervous system and the special senses
7. Develop skills in physical manipulation of materials including fetal pig dissection, sheep brain dissection, cow eye dissection, microscopy, electromyography, and other physiological experiments
8. Explain how one physiological system can affect another (integration of concepts)
9. Apply improved critical thinking skills to make better informed decisions about their own health

Required Materials:

- 1) *Anatomy & Physiology: The Unity of Form and Function*, Saladin, 9th ed. (**Inclusive Access**)
- 2) McGraw-Hill Connect for pre-labs, SmartBooks, and more (**Inclusive Access**)
- 3) Access to D2L for announcements, lecture and lab content, quizzes, and more

Inclusive Access is a program that provides digital course materials via D2L at a substantial discount. Access for all students begins the first day of class. PSIO 201 Inclusive Access provides access to materials for one semester.

Technology Requirements:

- 1) Reliable internet access
- 2) Access to a computer that meets the [system requirements for D2L](#)

It is the student's responsibility to maintain daily access to technology requirements. Please see the [University's IT Services and Resources](#) if you have concerns about meeting these technology requirements.

D2L Information:

Reliable access to our D2L site is vital to your success as all course materials will be posted here. Please visit d2l.arizona.edu and log in with your NetID and password to access our course site. Students are responsible for checking D2L frequently for announcements and are encouraged to [turn on email/text notifications](#) for new D2L announcements.

NOTE: It is inevitable that there will be mistakes in any textbook. If you discover an error, please point it out to the instructor. The instructor will serve as the primary authority on course material. If the information in the textbook differs from what you hear or see in class, you are responsible for what was presented in class.

In-Person Modality:

Attendance and participation in both lab and lecture is essential for success in PSIO 201. Instructors will deliver lecture content in-person on **M/W/F from 2-2:50pm in ENR2 N120**. Lecture exams will be held in-person during the normal lecture period in the normal lecture classroom. TAs deliver lab content and lead lab activities.

Your lab section will meet each week in-person in **Koffler 560 or Bioscience East 116**. In the event that you are unable to attend lab, you should contact your TA and communicate with classmates regarding missed content. See below for additional information related to absences.

Attendance:

Students who miss lab or lecture are responsible for obtaining the missed information and for submitting related assignments on time. Students should review posted slides, complete readings, and communicate with classmates regarding missed content if an absence is unavoidable. **Any student who is absent from the first lab will be administratively dropped from the course.** If your absence from the first lab is unavoidable, you must email your TA in advance of the first lab to discuss a potential resolution to this drop policy; please copy the lab coordinator, Joseph Agosttini (jagosttini6@arizona.edu), on your email. **Make-up labs will not be available for any reason.**

Due to the hands-on nature of laboratory activities, lab attendance is essential for successful completion of this course. **Any student who misses three laboratory sessions will be at risk of being administratively dropped from the course.** Students who have concerns regarding this policy should contact the course director prior to the third laboratory absence.

Absence and Class Participation Policy:

If you feel sick, or if you need to isolate or quarantine based on [University protocols](#), stay home. Except for seeking medical care, avoid contact with others and do not travel. Notify your instructor(s) if you will be missing a course meeting or an assignment deadline. See page 5 for policies. Non-attendance for any reason does not guarantee an automatic extension of due date or rescheduling of examinations/assessments. Please communicate and coordinate any request directly with your instructor. **If you must miss the equivalent of more than one week of class, please contact the Dean of Students Office DOS-deanofstudents@arizona.edu to share documentation about the challenges you are facing.**

The UA's policy concerning Class Attendance and Participation, and Administrative Drops is available [here](#). The UA policy regarding absences for any sincerely held religious belief, observance, or practice is available [here](#) and will be accommodated where reasonable. Absences pre-approved by the UA Dean of Students (or Dean Designee) will be honored, more information [here](#).

Anatomy and Physiology Study Center:

The PSIO 201 anatomy and physiology study center is located in the Gittings building, Room 3E, and is available to students during scheduled office hours of teaching assistants (TAs). Office hours will be posted on D2L under *Content* → *PSIO 201 Info*. The study center is designed to provide PSIO 201 students with another opportunity to review materials learned in lecture and lab, and to serve as an anatomy and physiology library. The study center is equipped with relevant A&P learning materials on a week-to-week basis. Students are not permitted to remove materials from the study center for any reason. **The study center is NOT intended to serve as a replacement for attending lab.** Students who attempt to use the study center in this capacity will find that their grades suffer. Students are encouraged to come to the study center earlier in each block to avoid crowds.

Open Lab Hours on Mondays Before Lab Practicals:

The lab in Bioscience East 116 will be open from 8am-1pm on the Monday of each lab practical week. TAs and preceptors will be present to answer questions and assist students. Additional details will be posted to D2L prior to each practical.

Grading Scale:

There are **1000 points possible** during the semester, distributed as follows:

Grade Item	# of Items	Points Per Item	# Dropped	Running Point Total	Weight Towards Final Grade
Course Intro Quiz	1	12	0	12	1.2%
SmartBooks (Connect)	10	2.5	6	10	1.0%
Lab Participation	10	2	1	18	1.8%
Pre-Labs (Connect)	10	5	2	40	4.0%
In-Lab Quizzes	6	15	1	75	7.5%
Lecture Quizzes (D2L)	10	15	2	120	12.0%
Lab Practicals	4	50	0	200	20.0%
Lecture Exams	4	100	0	400	40.0%
Final Exam	1	125	0	125	12.5%

Grades are determined by the percentage of points accumulated during the semester using a straight scale:

Letter Grade	Points earned	Percentage
A	≥ 900	≥ 90.0%
B	800-899	80.0-89.9%
C	700-799	70.0-79.9%
D	600-699	60.0-69.9%
E	≤ 599	≤ 59.9%

SmartBook Assignments:

SmartBook assignments for lecture are available in McGraw-Hill Connect. These assignments will open throughout the block and will close at 11:59pm the night before each lecture exam. Students have unlimited attempts on each SmartBook until the deadline. There are 10 SmartBook assignments available, each worth 2.5 points. A maximum of 10 points can be earned from SmartBook Assignments; students who complete 4 out of 10 SmartBook assignments will earn full credit in this category.

Lab Participation:

Near the end of each laboratory session, students will submit an in-class participation activity to be graded for completion. To earn points, students must be physically present when the TA collects the participation activities. Each lab participation activity is worth 2 points and the lowest score will be dropped from the final grade.

Pre-Labs:

Pre-labs are online assignments that encourage active learning of lab material and prepare students for in-person lab sessions. Pre-labs are completed in McGraw-Hill Connect and are due at 11:59pm the Sunday prior to each lab. An unlimited number of attempts is provided and the best attempt will be recorded in D2L. Pre-lab content will appear on lab quizzes and lab practicals. Each pre-lab is worth 5 points and the lowest two pre-lab scores will be dropped from the final grade.

In-Lab Quizzes:

In-lab quizzes are administered at the beginning of laboratory sessions, and therefore it is essential for students to arrive on-time to lab. Quizzes cover lab content from the previous lab and the current lab, as indicated by your TA. Quizzes are timed at 15-minutes each and may include fill-in-the-blank, matching, true/false, labeling, and multiple choice questions. Each quiz is worth 15 points and the lowest in-lab quiz score will be dropped from the final grade.

Lecture Quizzes:

Quizzes covering the most recent lecture material are administered via D2L and contain multiple choice, multi-select, and matching style questions. Quizzes are due at 11:59pm on the days indicated in the course schedule. Students can start a

quiz at any time during the open window, but each attempt is timed at 20 minutes. Two attempts are provided for each quiz and the highest score will be recorded. The use of notes and other resources during quizzes is allowed; however, due to the timed nature of these assessments, students will find it difficult to do well on a quiz if they have not prepared in advance (i.e. there will not be enough time to look up each answer). There are multiple versions of each quiz and questions shuffle between attempts. Students can review graded quiz attempts after the submission deadline. The two lowest lecture quiz scores will be dropped from the final grade. NOTE: The course intro quiz cannot be dropped.

Lab Practicals:

Laboratory practicals will be given during your regularly scheduled lab time on the dates indicated in the lab schedule. Practicals will be based upon lab material including TA lectures, lab-related videos and readings, pre-lab assignments, practice worksheets, microscope slides, in-lab activities, and dissection material. You will rotate through a series of practical stations containing lab materials and each station will be timed. You will not be allowed to manipulate, touch, or move any lab practical items unless specifically instructed. Further information about the practical format will be provided in person. Each practical will be worth 50 points and will consist of fill-in-the-blank and short answer questions.

NOTE: To facilitate a hands-on learning experience in the laboratory, we will use preserved specimens such as fetal pigs, sheep brains, human brains, and cow eyes, as well as human bones and some preserved human tissues.

Lecture Exams:

Lecture exams are closed-book and cover material presented in lecture as well as reading assignments specified by the instructor. Lecture exams 1-4 will consist of 40 multiple-choice questions worth 2.5 points each; lecture exams 1-4 are non-cumulative. The final exam will consist of 50 multiple-choice questions worth 2.5 points each; 35 (70%) will cover Block 5 material and 15 (30%) will be cumulative questions (covering material from Blocks 1-5). For all exams, students will mark their answers on a provided bubble sheet. Your scored bubble sheet will be made available through Gradescope and will be open for your review until the next lecture exam. All lecture exams will be held in ENR2 N120. Exams 1-4 will begin promptly at 2:00pm and run for 45 minutes; the final exam will begin at 1:00pm and will run for 75 minutes. In the event that you arrive late for an exam, you should immediately speak with an instructor for permission to start the exam late. A student permitted to start an exam late should not expect to be given additional time on the exam.

Extensions and Make-Ups:

- Pre-Labs, SmartBooks, Lecture Quizzes, In-Lab Quizzes: These assignments remain open for an extended period and/or allow dropped scores. As such, extensions/make-ups for these assignments are not permitted for any reason.
- Lab Participation: Students may miss one lab (or leave one lab early) without penalty using the provided dropped participation score. Make-ups for missed lab participation points are not provided for any reason.
- Lab Practicals and Lecture Exams: Make-up lab practicals and lecture exams will only be permitted in the case of an *extreme circumstance***, and only if the student contacts the lab TA and the course director ***in advance*** (prior to the start of the practical or exam). Make-ups will have a modified format, including additional short answer questions for practicals and free response questions for lecture exams.
 - All lecture exam make-ups will be proctored on Thursday, May 2nd. All lab practical make-ups will be proctored the week of April 29th. To schedule a make-up exam outside of these windows, students must provide documentation of an unavoidable conflict.

****Extreme circumstances** refer to emergency situations that prevent a student from completing an assessment on time. In such situations, ***students must communicate in advance*** to discuss the possibility for a make-up. If a student fails to communicate in advance or misses an assessment for a reason that does not qualify as an extreme circumstance, the student will receive a score of zero for that practical or exam. Make-up requests are considered on a case-by-case basis and are approved at the discretion of the course director. An extreme circumstance is unpreventable in nature. The following do not constitute an extreme circumstance: personal travel plans, time conflicts (e.g., called into work at the last minute), forgetting the day/time of an exam or practical.

To request a disability-related exception to these policies, students should contact the Disability Resource Center (please see "Accessibility and Accommodations").

Grades and Extra Credit:

The TAs post scores to D2L and keep a record of grades earned throughout the semester. ***If you have any questions about your grades, please contact your TA first.*** In the event that a question cannot be resolved with the TA, you are welcome to discuss questions or concerns with the course director (Dr. Roof).

Extra credit points can be earned through completion of a feedback survey (details will be announced later in the semester). The number of available extra credit points will be announced in lecture and will be the same for all students. ***No additional extra credit will be offered.***

Grading Policies:

If your major is Physiology and Medical Sciences, ***you must earn a C or better in PSIO 201 and PSIO 202 to subsequently register for upper division PSIO courses.***

Grade appeals: It is the responsibility of the student to check that grades are recorded correctly. Problems related to grading must be addressed ***before the next scheduled lab practical or exam***, and not at the end of the semester. For concerns regarding final grades, please contact the course director within one week of the final exam date.

Incompletes (I) and withdrawals (W): University policy states that an incomplete shall only be assigned if a student has successfully completed at least 80% of course requirements with a passing grade. If a student has a valid reason that makes completing the remaining 20% of the course impossible at the end of the current semester, an incomplete may be warranted and the student may discuss this option with the course director ***before the end of the term***. A grade of incomplete cannot be awarded after final grades are reported to the registrar's office. Note that if a student stops participating in class and fails to drop or withdraw, a final grade will be recorded based on all of the student's scores (including zero scores for missed assignments). ***It is the responsibility of the student to drop the course if he or she decides to do so.*** Requests for withdrawal must be made in accordance with University policies, which

Accessibility and Accommodations:

At the University of Arizona, we strive to make learning experiences as accessible as possible. If you anticipate or experience barriers based on disability or pregnancy, please contact the Disability Resource Center at (520) 621-3268 or <https://drc.arizona.edu> to establish reasonable accommodations. If you are approved for specific accommodations with the DRC, ***it is your responsibility to contact your TA prior to January 19th in order to receive accommodations for lecture quizzes and lab practicals.*** Students who are affiliated with the DRC should schedule lecture exams at the DRC.

Communication Policy and Instructor Response Time:

Students are expected to check the D2L course site regularly for important announcements posted by course instructors. Students are also expected to check university email regularly; instructors and TAs may use email to communicate with individual students or lab sections. When emailing a course instructor or TA, students should provide their full name, course number, and lab section (i.e. Wilbur Wildcat, PSIO 201 001A). Please allow 24 hours for a response; emails sent on the weekend may not receive an immediate response. Questions related to course material that require a lengthy response are best asked during office hours.

Scheduled Topics/Activities:

A course overview as well as detailed lab and lecture schedules are found on the next three pages of this syllabus.

COURSE OVERVIEW

WEEK	LECTURE			LAB
	Monday	Wednesday	Friday	
Jan 10 th – Jan 12 th		Lecture 0	Lecture 1.1	**NO LAB**
Jan 15 th – Jan 19 th	MLK JR. DAY	Lecture 1.2	Lecture 1.3 ^Q	Lab 1.1 ^P
Jan 22 nd – Jan 26 th	Lecture 1.4	Lecture 1.5	Lecture 1.6 ^Q	Lab 1.2 ^{PQ}
Jan 29 th – Feb 2 nd	Lecture 1.7	Lecture 1.8	EXAM 1^{QS}	Lab 1.3 ^{PQ}
Feb 5 th – Feb 9 th	Lecture 2.1	Lecture 2.2	Lecture 2.3	LAB PRACTICAL 1
Feb 12 th – Feb 16 th	Lecture 2.4	Lecture 2.5	Lecture 2.6 ^Q	Lab 2.1 ^P
Feb 19 th – Feb 23 rd	Lecture 2.7	Lecture 2.8	EXAM 2^{QS}	Lab 2.2 ^{PQ}
Feb 26 th – Mar 1 st	Lecture 3.1	Lecture 3.2	Lecture 3.3	LAB PRACTICAL 2
Mar 4 th – Mar 8 th	SPRING RECESS – NO CLASSES			**NO LAB**
Mar 11 th – Mar 15 th	Lecture 3.4	Lecture 3.5	Lecture 3.6 ^Q	Lab 3.1 ^P
Mar 18 th – Mar 22 nd	Lecture 3.7	Lecture 3.8	EXAM 3^{QS}	Lab 3.2 ^{PQ}
Mar 25 th – Mar 29 th	Lecture 4.1	Lecture 4.2	Lecture 4.3	LAB PRACTICAL 3
Apr 1 st – Apr 5 th	Lecture 4.4	Lecture 4.5	Lecture 4.6 ^Q	Lab 4.1 ^P
Apr 8 th – Apr 12 th	Lecture 4.7	EXAM 4^{QS}	Lecture 5.1	Lab 4.2 ^{PQ}
Apr 15 th – Apr 19 th	Lecture 5.2	Lecture 5.3	Lecture 5.4	Lab 4.3 ^{PQ}
Apr 22 nd – Apr 26 th	Lecture 5.5	Lecture 5.6 ^Q	Lecture 5.7	LAB PRACTICAL 4
Apr 29 th – May 3 rd	Lecture 5.8	Review ^{QS}	FINAL EXAM @ 1pm	**NO LAB**

Important Dates:

- Friday, January 19th is the last day to add the class or switch sections
- Tuesday, January 23rd is the last day to drop the class without receiving a grade of 'W' on your transcript
- Tuesday, March 26th is the last day to file for Grade Replacement Opportunity (GRO)
- Tuesday, March 26th is the last day to withdraw from the class via UAccess (and receive a 'W' on your transcript)

Course lectures and lecture exams are held in **ENR2 N120** M/W/F at 2pm

LECTURE SCHEDULE

BLOCK	LECTURE	DAY	INSTRUCTOR	TOPIC	TEXTBOOK READINGS	LECTURE QUIZZES & SMARTBOOK ASSIGNMENTS	
Block 1 Intro to Anatomy & Physiology	Lecture 0	W 1/10	Roof	Course Introduction & Important Policies	Course Syllabus (on D2L)	Course Intro Quiz	Due Thurs 1/18 11:59pm
	Lecture 1.1	F 1/12	Roof	Intro to A&P and Levels of Biological Organization	1.1a-b; 1.5a; 1.6a	Lecture Quiz 1A covers Lectures 1.1-1.3	Due Thurs 1/25 11:59pm
		M 1/15	Roof	MLK JR. HOLIDAY - NO CLASS			
	Lecture 1.2	W 1/17	Roof	The Scientific Method & Principles of Homeostasis	1.3 Intro; 1.6a,c-d		
	Lecture 1.3	F 1/19	Roof	Introduction to Cellular Physiology	2.2a-b; 2.4a-g; 3.2a; 24.1a	Lecture Quiz 1B covers Lectures 1.4-1.6	Due Thurs 2/1 11:59pm
	Lecture 1.4	M 1/22	Roof	Structure and Function of Biological Membranes	2.4d-e; 3.2a		
	Lecture 1.5	W 1/24	Roof	Membrane Transport	1.6e; 3.3		
	Lecture 1.6	F 1/26	Roof	Membrane Transport (continued)	1.6e; 3.3		
	Lecture 1.7	M 1/29	Roof	Ion Gradients & The Resting Membrane Potential	1.6e; 12.4a-b		
	Lecture 1.8	W 1/31	Roof	The Resting Membrane Potential (continued)	1.6e; 12.4a-b		
EXAM 1	F 2/2	Roof	Exam 1 covers Lectures 1.1-1.8		Block 1 SmartBooks due Thursday 2/1 11:59pm		
Block 2 Skeletal System	Lecture 2.1	M 2/5	Stanescu	Introduction to the Skeletal System	Ch. 7 Intro; 7.1a-c; 8.1a	Lecture Quiz 2A covers Lectures 2.1-2.3	Due Thurs 2/15 11:59pm
	Lecture 2.2	W 2/7	Stanescu	Articulations	9.1a-c; 9.2a-b; 9.3b,d		
	Lecture 2.3	F 2/9	Stanescu	Composition and Organization of Bone I	7.2a-d		
	Lecture 2.4	M 2/12	Stanescu	Composition and Organization of Bone II	7.2a-d	Lecture Quiz 2B covers Lectures 2.4-2.6	Due Thurs 2/22 11:59pm
	Lecture 2.5	W 2/14	Stanescu	Bone Formation	7.3a-c; 7.4a		
	Lecture 2.6	F 2/16	Stanescu	Bone Growth and Remodeling; Bone Fractures	7.3c; 7.5a		
	Lecture 2.7	M 2/19	Stanescu	Calcium Homeostasis	7.4b	Block 2 SmartBooks due Thursday 2/22 11:59pm	
	Lecture 2.8	W 2/21	Stanescu	Osteoporosis and the Effect of Exercise on Bone	7.5b		
	EXAM 2	F 2/23	Stanescu	Exam 2 covers Lectures 2.1-2.8			
Block 3 Muscular System	Lecture 3.1	M 2/26	Stanescu	Introduction to Skeletal Muscle and the Basics of Movement	9.2b-c; 10.1a,c-d; 11.1a-b	Lecture Quiz 3A covers Lectures 3.1-3.3	Due Thurs 3/14 11:59pm
	Lecture 3.2	W 2/28	Stanescu	Tissue and Cellular Organization of Muscle	10.1b; 11.2a-c		
	Lecture 3.3	F 3/1	Stanescu	Cellular Basis of Muscle Contraction	11.2a; 11.4c		
		3/4-3/8		SPRING RECESS - NO CLASS			
	Lecture 3.4	M 3/11	Stanescu	Excitation Contraction Coupling and Muscle Relaxation	11.3a-c; 11.4a-d	Lecture Quiz 3B covers Lectures 3.4-3.6	Due Thurs 3/21 11:59pm
	Lecture 3.5	W 3/13	Stanescu	Muscle Energetics	11.6a-d		
	Lecture 3.6	F 3/15	Stanescu	Muscle Mechanics	11.5a-c; 11.6a-d		
	Lecture 3.7	M 3/18	Stanescu	Muscle Performance and The Effect of Exercise on Muscle	11.6d-e	Block 3 SmartBooks due Thursday 3/21 11:59pm	
	Lecture 3.8	W 3/20	Stanescu	Cardiac and Smooth Muscle	11.7a-b		
EXAM 3	F 3/22	Stanescu	Exam 3 covers Lectures 3.1-3.8				
Block 4 Nervous System I	Lecture 4.1	M 3/25	Roof	Introduction to the Nervous System	12.1; 12.2a,c; 14.2a-c	Lecture Quiz 4A covers Lectures 4.1-4.3	Due Thurs 4/4 11:59pm
	Lecture 4.2	W 3/27	Roof	Brain: Structures and Functions I	14.1b; 14.3a-e; 14.4a-b; 14.5c-1		
	Lecture 4.3	F 3/29	Roof	Brain: Structures and Functions II	14.1b; 14.3a-e; 14.4a-b; 14.5c-1		
	Lecture 4.4	M 4/1	Roof	The Spinal Cord	13.1a-e	Lecture Quiz 4B covers Lectures 4.4-4.5	Due Tues 4/9 11:59pm
	Lecture 4.5	W 4/3	Roof	Reflex Physiology	13.3a-f		
	Lecture 4.6	F 4/5	Roof	Autonomic Nervous System: Sympathetic Division	15.1 Intro; 15.1b-c; 15.2a-c; 15.3a-c	Block 4 SmartBooks due Tuesday 4/9 11:59pm	
	Lecture 4.7	M 4/8	Roof	Autonomic Nervous System: Parasympathetic Division	15.2a-c; 15.3a-c		
	EXAM 4	W 4/10	Roof	Exam 4 covers Lectures 4.1-4.7			
Block 5 Nervous System II	Lecture 5.1	F 4/12	Roof	Resting Membrane Potential (Review)	1.6e; 12.4a-b	Lecture Quiz 5A covers Lectures 5.1-5.3	Due Tues 4/23 11:59pm
	Lecture 5.2	M 4/15	Roof	The Action Potential	12.4c-e		
	Lecture 5.3	W 4/17	Roof	Action Potential Propagation	12.4f		
	Lecture 5.4	F 4/19	Roof	Synaptic Transmission	12.5, 12.6a-b	Lecture Quiz 5B covers Lectures 5.4-5.6	Due Tues 4/30 11:59pm
	Lecture 5.5	M 4/22	Roof	Sensory Function I: Olfaction and Gustation	16.1; 16.3a-b		
	Lecture 5.6	W 4/24	Roof	Sensory Function II: Vision	16.5a,c-f		
	Lecture 5.7	F 4/26	Roof	Sensory Function III: Hearing and Balance	16.4a-d	TBA	
	Lecture 5.8	M 4/29	Roof	Integration of Concepts	TBA		
	Review	W 5/1	Roof	Final Exam Review	none	Block 5 SmartBooks due Tuesday 4/30 11:59pm	
FINAL EXAM	F 5/3	Roof/Stanescu	70% (35Q) will cover Lectures 5.1-5.8; 30% (15Q) will be cumulative		**NOTE: The final begins at 1:00pm		

Labs and lab practicals are held in
Koffler 560 or BioSciE 116

LAB SCHEDULE

BLOCK	WEEK	LAB	TOPICS	REQUIRED TEXTBOOK READINGS	PRE-LABS due Sun before lab @11:59pm	IN-LAB QUIZZES
Block 1 Intro to Anatomy & Physiology	1/10 - 1/12	NO LABS MEET				
	1/15 - 1/19	Lab 1.1	Directional & Anatomical Terms; Organ Systems; Introduction to Histology; Muscle & Nervous Tissues; Integumentary System I	Atlas A; 5.1a; 5.4; Ch. 6 Intro; 6.1a; 6.2a	Pre-Lab 1.1	none
	1/22 - 1/26	Lab 1.2	Fetal Pig Dissection; Integumentary System II; Epithelial Tissue	5.2; Ch. 6 Intro; 6.1a-b	Pre-Lab 1.2	Lab Quiz 1
	1/29 - 2/2	Lab 1.3	Connective Tissues; Integumentary System III	5.3; 6.1c; 6.3a-b	Pre-Lab 1.3	Lab Quiz 2
	2/5 - 2/9	LAB PRACTICAL 1				
Block 2 Skeletal System	2/12 - 2/16	Lab 2.1	The Axial Skeleton	8.1- 8.3	Pre-Lab 2.1	none
	2/19 - 2/23	Lab 2.2	The Appendicular Skeleton	8.4-8.5	Pre-Lab 2.2	Lab Quiz 3
	2/26 - 3/1	LAB PRACTICAL 2				
Block 3 Muscular System	3/4 - 3/8	SPRING RECESS - NO LABS				
	3/11 - 3/15	Lab 3.1	Muscle Microanatomy of Muscle; Muscles of the Head, Neck, and Torso; Muscles of the Upper Limb	10.1-10.4	Pre-Lab 3.1	none
	3/18 - 3/22	Lab 3.2	Muscles of the Lower Limb; Electromyography	10.5	Pre-Lab 3.2	Lab Quiz 4
	3/25 - 3/29	LAB PRACTICAL 3				
Block 4 Nervous System	4/1 - 4/5	Lab 4.1	Introduction to the Nervous System; Gross Anatomy of the Brain; Cranial Nerves	12.1; 12.2a-c; 12.3a; 14.1a-b; 14.2a-c; 14.3a-e; 14.4; 14.6	Pre-Lab 4.1	none
	4/8 - 4/12	Lab 4.2	Spinal Nerves; Reflex Tests; Sheep Brain Dissection	13.1a-b; 13.2a-c; 13.3a-f; 15.1a	Pre-Lab 4.2	Lab Quiz 5
	4/15 - 4/19	Lab 4.3	General and Special Senses; Cow Eye Dissection	16.1a; 16.2a-b; 16.4b-d; 16.5; Figures 16.11, 16.13, 16.26, 16.27, 16.30, 16.33	Pre-Lab 4.3	Lab Quiz 6
	4/22 - 4/26	LAB PRACTICAL 4				
	4/29 - 5/3	NO LABS MEET				

Course Etiquette and Student Behavior Policy:

To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus during synchronous and asynchronous activities must be on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a newspaper, making phone calls, web surfing, etc.).

Students are asked to refrain from disruptive behaviors during synchronous course meetings. Students observed engaging in disruptive activity will be asked to cease this behavior. Those who continue to disrupt the class will be asked to leave and may be reported to the Dean of Students.

It is expected that all class members will exhibit respectful and courteous behavior in their words and actions in all interactions with other students, faculty, graduate teaching assistants, and departmental staff members. Respectful and courteous behavior includes arriving to synchronous meetings on time so that the session is not interrupted by late entry, silencing phones and other electronic devices during synchronous meetings, dedicating attention to the task at hand, and avoiding unkind, tactless, or rude comments to others.

Code of Academic Integrity:

Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, ***graded work must be the product of independent effort unless otherwise instructed***. Students are expected to adhere to the [UA Code of Academic Integrity](#). The University Libraries have some excellent [tips for avoiding plagiarism](#).

Selling class notes, videos, and/or other course materials to other students or to a third party for resale is not permitted without the instructor's express written consent. Downloading and distributing video recordings is not permitted without the instructor's express written consent. For lecture recordings, which are used at the discretion of the instructor, students must access content in D2L only. Students may not modify content or re-use content for any purpose other than personal educational reasons. All recordings are subject to government and university regulations. Therefore, students accessing unauthorized recordings or using them in a manner inconsistent with [UArizona values](#) and educational policies ([Code of Academic Integrity](#) and the [Student Code of Conduct](#)) are also subject to course sanctions, suspension, and civil action. Students who use D2L or UA e-mail to sell or buy these copyrighted materials are subject to Code of Conduct Violations for misuse of student e-mail. This conduct may also constitute copyright infringement.

The UA Code of Academic Integrity places full responsibility on the student for the content and integrity of all academic work submitted in the form of quizzes, examinations, laboratory practicals, written summaries, and so on. During exams, students are responsible for following the guidelines listed in the syllabus as well as those presented by the instructor at the beginning of the exam. The following are examples of unacceptable behavior during an exam: looking at course materials or searching the internet, having any electronic devices non-silenced or available during the exam, using a second computer screen, looking at another student's exam, sharing exam information with other students. If a student is involved in unacceptable behavior or behavior that is deemed to be dishonest by PSIO 201 faculty and TAs, the Dean of Students office will be notified and the following sanctions can be applied: the student will lose credit for the exam (grade of zero) and a permanent notation of dishonest behavior can be added to the student's transcript. All quizzes and exams are the property of the Department of Physiology and students do not have permission to take screenshots or otherwise share quiz and exam information with others.

Submission of any course materials to resource sharing sites (e.g., Course Hero) is a violation of course policies and promotes academic dishonesty. Plagiarism and academic dishonesty will not be tolerated; such behavior will result in a score of zero for the grade item in question and a report to the Dean of Students Office.

Threatening Behavior Policy:

The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. See <http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students>.

UA Nondiscrimination and Anti-Harassment Policy:

The University is committed to creating and maintaining an environment free of discrimination; see <http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy>. Discrimination of any kind is strictly forbidden in this course and will not be tolerated.

Additional Resources for Students:

- UA Academic policies and procedures are available [here](#).
- The university's Final Exam Schedule can be found [here](#).
- Student Assistance and Advocacy information is available [here](#).
- If you have questions about your academic progress this semester, please reach out to your academic advisor. Contact the Advising Resource Center (<https://advising.arizona.edu/>) for all general advising questions and referral assistance. Call 520-626-8667 or email to advising@arizona.edu.
- If you are experiencing unexpected barriers to your success in your courses, please note the Dean of Students Office is a central support resource for all students and may be helpful. The Dean of Students Office can be reached at (520) 621-2057 or DOS-deanofstudents@arizona.edu.
- If you are facing physical or mental health challenges this semester, please note that Campus Health provides quality medical and mental health care. For medical appointments, call (520) 621-9202. For After Hours care, call (520) 570-7898. For medical appointments, call (520) 621-9202. For After Hours care, call (520) 570-7898.
- As a student, you may sometimes experience problems with your mental health that can interfere with academic experiences and negatively impact daily life. If you or someone you know experiences mental health challenges, please contact Counseling and Psych Services (CAPS) at Campus Health by calling the 24/7 hotline at (520) 621-3334. CAPS is committed to helping students thrive personally and academically. You can learn more about the confidential services available through CAPS [here](#). Remember that getting help is a smart and courageous thing to do – for yourself, for those you care about, and for those who care about you.
- A list of crisis contacts is available on the D2L course site (or click [here](#)).

Subject to Change Statement:

Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.