

Biology 287: Essentials of Human Anatomy
Fall 2019 Syllabus and Schedule
Lecture: Tu, Th, F 8-8:50, CBB 101
Labs (CBB 320): M 8:00-11:50 am, T 9:00-11:50 am

Instructor: Nancy Shefferly, M.S.

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Office: 145 CBB, 715-346-2366

Office hours: Wednesday 1-2 pm, Th 9-10:00 am, and by appointment

Course Description:

Examine human anatomy using models, diagrams, and digital media. Provides a foundational introduction to human structure and function. Recommended for students interested in physical education, nursing, health promotion and wellness, or for students planning to take BIOL 387 who have minimal background knowledge in human anatomy. This course does not fulfill the Biology major requirement. (Prereq.: BIOL 101 or BIOL 160 or permission of instructor.)

Student Learning Outcomes:

Students completing this course will attain varying levels of proficiency in their ability to:

1. Identify anatomical structures of the human body.
2. Describe anatomical structures in discipline specific terms, and relate their forms to their functions.
3. Deduce functions and predict effects of injury based on general anatomical principles.

Required:

Human Anatomy by Marieb, Wilhelm, and Mallat, 8th Ed.

A Visual Analogy Guide to Human Anatomy by Krieger, 4th Ed.

****Laboratory notebook:** Graph ruled composition notebooks are good for this.

Optional texts:

A Photographic Atlas for Anatomy & Physiology by Hebert, Heisler, Krabbenhoft, Malakhova, and Chinn,
1st Ed

Suggested Supplies:

A good set of colored pencils.

Attendance Policies

Attendance at lectures will help you to perform well on exams. There is no formal attendance requirement for lectures, but there are often quizzes, assignments, and activities during lecture for which you will receive points. If you are absent from lecture, you will not be able to make up these points.

Your lab activities (including quizzes and exams) count for approximately 50% of your grade in this course. Attendance in labs is required. Each week, completion of diagrams and participation in activities will be worth up to 5 points. You must be present to win. There are no make-ups for lab reports missed due to absence. Labs must be submitted when requested. Late labs will NOT count toward your grade.

Attendance at exams is required. In general, the reasons that you miss an exam should be the same as those for which you would miss your wedding or a job interview. Make-up exams are difficult to administer, and students usually do poorly on them. Because of this, it is best to avoid make up exams if you can. If, however, you are very ill, in court, have a dental emergency, death in the family, etc., you can take a make-up exam. In order to qualify for a make-up exam, you must provide a written, verifiable excuse from an authorized party (doctor, dentist, minister, etc.) within one week of the missed exam. This excuse should clearly articulate that you were UNABLE to make it to class for the exam, including a timetable for restriction from work or school. **All make-ups for Exams I and II will be held in the lab room at 4 pm on Friday, December 13, 2019.** If you have a conflict with this time, please inform me in advance, so other arrangements can be made for your make-up exam. Because of the difficulty of setting up lab practical exams, all make up exams will be based on photographs, not actual models. **Make-ups for Exam III and the final exam will be by appointment.**

Grading

Your grade in this course will be based on the following:

1. **Exams.** Exams I-III will be given during your lab section, and will cover both conceptual (verbal) questions from the lectures and reading, and identification of structures and their functions from the lab. Each exam will be worth 100 points. All exams will contain a combination of multiple choice and short answer/essay questions. In addition, there will be a comprehensive final exam that will be worth 125 points. Consult your schedule for the exact date of each exam.
2. **In-Class Quizzes.** There will be activities and/or quizzes during most lectures. Quizzes will cover material from previous lectures and/or the day's assigned reading. In order to do well on these quizzes, it is essential that you **STUDY EVERY DAY.** Each quiz or activity is worth 2 points. Students not in attendance will NOT be allowed to make up these points. Quizzes will not be announced. There will be about 46 points available during the term. This allows you some flexibility, since you can miss a couple of quizzes, or score less than perfect on several, but still have the ability to score all 40 points that will count toward your grade.
3. **Lab Notebooks:** Lab notebook entries for each lab will be worth 6 points. In your notebook, you will diagram and label structures you are expected to be able to identify on models and in diagrams/histological images. 3 points of each 6-point lab will be awarded for attendance and directed work during the lab period. The remainder of the weekly grade will be based on accuracy and completeness. Students are expected to make the most of their laboratory time to review structures on models. Leaving early without checking out and receiving permission WILL count against you, and you may lose up to 100% of your attendance points. Your lowest weekly score will be dropped. The total available from lab is 60 points.
4. **Lab Quizzes:** There will be 6 laboratory quizzes, worth 15 points each. These are intended to be an incentive for frequent studying, and to prepare you for exams. The structure of these quizzes will be about the same as the structure of Exams. Different sections will receive different quizzes. A total of 75 points are available from lab quizzes. (You will be allowed to drop your lowest lab quiz.)
5. **Extra Credit:** Prior to each exam, I will post an extra credit assignment. These assignments are designed to help you prepare for the exam, and will be worth up to 5 points each. Extra credit points will be added to your course total at the end of the term. No extra credit will be provided at the request of students as a means of grade improvement. No more than 10 extra credit points will count toward your grade. Extra credit is added to your score at the end of the term.
6. **Exam Improvement Bonus:** The key to improving performance is to recognize your errors early and make changes to your behavior. Doing the same thing over and over rarely leads to a different result. I wish to reward students who make a positive change. If you score Better on Exam I than on Exam II; and if you score better on Exam III than on Exam II, I will give you 2 bonus points. If you score MORE THAN 5% Higher, I will give you bonus points equaling the ½ the amount of your improvement. (So if you score

62% on Exam I and 80% on exam II, you will get 2 points for scoring higher, then an additional 9 points for the 18% improvement.)

Grading Breakdown

Exams	3 @ 100 points 1@120 points	425 points
In Class Quizzes	2 pts @ up to 40 points	40 points
Lab Notebook	Best 10 of 11 @ 6 points	60 points
Lab Quizzes	Best 5 of 6@15 points	75 points
Total		600 points

Grading Scale

A = 93-100%	B+ = 87.0-89.9%	C+ = 77.0-79.9%	D+ = 67.0-69%	
A- = 90.0-92.9%	B = 83.0-86.9%	C = 73.0-76.9%	D = 60.0-66.9%	F = <60%
	B- = 80.0-82.9%	C- = 70.0-72.9%		

Grades will be available to students on the class site at the course Canvas site. Privacy laws preclude the distribution of grades via phone.

Safe Learning Environment

UWSP values a safe, honest, respectful, and inviting learning environment. In order to ensure that each student has the opportunity to succeed, we have developed a set of expectations for all students and instructors. This set of expectations is known as the *Rights and Responsibilities* document, and it is intended to help establish a positive living and learning environment at UWSP.

Academic Misconduct

All acts of dishonesty in any work constitute academic misconduct. This includes, but is not limited to, cheating, plagiarism, fabrication of information, misrepresentations of a student’s academic performance, and abetting any of the above. This includes submitting papers that reflect the work of a group rather than the work of an individual. (Be very careful about this. Although you may work in groups for your labs and final lab report, the written work you submit to me **MUST BE YOUR OWN INDEPENDENT COMPOSITION.**) The Academic Standards and Disciplinary Procedures of the University of Wisconsin will be followed in the event that academic misconduct occurs.

Disability and Assistive Technology Center

The Americans with Disabilities Act (ADA) is a federal law requiring educational institutions to provide reasonable accommodations for student with disabilities. If you are registered with the Disability and Assistive Technology Center, please contact me as soon as possible to plan any course accommodations that may be necessary. If you have a disability but have not contacted the DATC, please call 346-3365 or visit 609 ALB to register for services.

Lecture Schedule

Date	Lecture Topics	Reading	
Tu Sept 3	Intro	Syllabus	
Th Sept 5	Human Body: An Orientation	Chapter 1	
F Sept 6	Tissues	Chapters 4	
Tu Sept 10	Tissues and Integumentary System	Chapter 4 and 5	
Th Sept 12	Integumentary System	Chapter 5	
F Sept 13	Bones and Skeletal Tissue	Chapter 6	
Tu Sept 17	Bones & Axial Skeleton	Chapter 6 and 7	
Th Sept 19	Axial & Appendicular Skeleton	Chapter 7 and 8	
F Sept 20	Axial & Appendicular Skeleton	Chapter 7 and 8	
Tu Sept 24	Axial & Appendicular Skeleton	Chapters 7 and 8	
Th Sept 26	Axial & Appendicular Skeleton	Chapter 7 and 8	
F Sept 27	Axial & Appendicular Skeleton	Chapter 7 and 8	
Tu Oct 1	Joints	Chapters 9	
Th Oct 3	Joints	Chapter 9	
F Oct 4	Review exercises		
Tu Oct 8	Skeletal Muscle Tissue	Chapter 10	Exam I in Lab M Oct 7-T Oct 8
Th Oct 10	Skeletal Muscle Tissue	Chapter 10	
F Oct 11	Muscles of the Body	Chapter 11	
Tu Oct 15	Muscles of the Body	Chapter 11	
Th Oct 17	Muscles of the Body	Chapter 11	
F Oct 18	Nervous System and nerve tissue	Chapter 12	
Tu Oct 22	Nerves and CNS	Chapters 12 and 13	
Th Oct 24	CNS	Chapter 13	
F Oct 25	CNS	Chapter 13	
Tu Oct 29	PNS	Chapter 14	
Th Oct 31	PNS	Chapter 14	
F Nov 1	ANS and Visceral Sensory Organs	Chapter 15	
Tu Nov 5	ANS and Visceral Sensory Organs	Chapter 15 and Ch 16	
Th Nov 7	Special Senses	Chapter 16	
F Nov 8	Review Exercises		
Tu Nov 12	The Endocrine system	Chapter 17	Exam II in Lab M Nov 11-T Nov 12
Th Nov 14	The Endocrine System and heart	Chapters 17 and 19	
F Nov 15	The Heart and Blood vessels	Chapter 19 and 20	
Tu Nov 19	The Heart and Blood vessels	Chapter 19 and 20	
Th Nov 21	The Lymphatic system	Chapter 21	
F Nov 22	The Lymphatic System and Respiratory system	Chapter 21 and 22	
Tu Nov 26	The Respiratory System	Chapter 22	
Th Nov 28	Thanksgiving		
F Nov 29	Thanksgiving		
Tu Dec 3	The Digestive System	Chapter 23	
Th Dec 5	The Digestive system and Urinary system	Chapters 23 and 24	

F Dec 6 The Urinary System Chapter 24
 Tu Dec 10 The Reproductive system
 Th Dec 12 The Reproductive system
 F Dec 13 Review Exercises
 M Dec 16 Final Exam 8:00-10:00 am

Exam III in Lab M Dec 9 -T Dec 10

Lab Schedule

Week of	Lab Topics
Sept 9	Lab 1. Tissues (Chapter 3). Integumentary System (Chapter 4)
Sept 16	Lab 2. Skeletal System (Chapter 5) LAB QUIZ 1
Sept 23	Lab 3. Skeletal System (Chapter 5)
Sept 30	Lab 4. Joints (Chapter 6) LAB QUIZ 2
Oct 7	Exam I
Oct 14	Lab 5. Muscular System (Chapter 7)
Oct 21	Lab 6. Muscular System (Chapter 7) LAB QUIZ 3
Oct 28	Lab 7. Nervous System (Chapter 8)
Nov 4	Lab 8. Special Senses (Chapter 10) LAB QUIZ 4
Nov 11	Exam II—
Nov 18	Lab 9. Cardiovascular system (Chapter 12) Respiratory system (Chapter 14)
Nov 25	Lab 10. Digestive system (Chapter 15) Urinary system (Ch 16) LAB QUIZ 5
Dec 2	Lab 11. Reproductive Systems (Chapter 17) LAB QUIZ 6
Dec 9	Exam III—