

Biology 287: Essentials of Human Anatomy
Spring 2019 Syllabus and Schedule
Lecture: MW 8-9:15, Science D 101
Labs (CBB 320): M 10-11:50 am, T 9:00-10:50 am, T 12:00-1:50 pm, W 10:00-11:50 am

Instructor: Nancy Shefferly, M.S.

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Office: 154 CBB, 715-346-2366

Office hours: Monday 2-4 pm, Th 9:00-12:00 pm, 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.

Critical Thinking Learning Outcomes:

With diligent effort on their part, students will:

1. Recognize critical thinking as a process of identifying, analyzing, evaluating, and constructing reasoning in deciding what conclusions to draw or actions to take.
2. Be able to do one or more of the following:
 - Identify reasoning as they apply it to general or discipline-specific questions or issues.
 - Analyze reasoning as they apply it to general or discipline-specific questions or issues.
 - Evaluate reasoning as they apply it to general or discipline-specific questions or issues.
 - Construct reasoning as they apply it to general or discipline-specific questions or issues.

Required:

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

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

****Laboratory notebooks (1 or 2):** 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 count for approximately 43% 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 4 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. Lab materials will be covered on the exams administered in Lecture (see exam attendance below.)

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, May 9, 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 lab practicals will be based on photographs, not actual models. **Make-ups for Exam III and the final exam will be by appointment.**

Grading

My philosophy of grading is that **student learning is paramount**, and should be rewarded even if it does not occur according to *my* schedule. Therefore, this course is designed to allow you to improve your grade when possible. Your grade in this course will be based on the following:

1. **Exams.** Exams I-III will consist of a paired set, one exam given in during the lecture and one “during” the lab. Lecture exams will cover conceptual material from the lectures and the text. Lab exams will be practical, involving the identification of structures, and descriptions of their functions. All exams will contain a combination of multiple choice and short answer/essay questions. Exams I-III (lab + lecture) will be worth 50 points each (total of 100 pts for each paired set), and the Final exam will be worth 100 points. Consult your schedule for the exact date of each exam.
2. **In-Class Quizzes.** There will be activities and/or quizzes during each lecture. Quizzes will cover material from the 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. **On-Line Quizzes:** You never know what you **don’t** know until you have to put knowledge into practice. Just as athletes need to practice their sport to master it, students need to practice answering test questions in order to master the skills required for taking exams. Material will be drawn from lecture, lab, and associated readings. Each quiz will be worth up to 5 points. Your lowest scores will be dropped. Quizzes are timed. Don’t start them until you’re sure you’re ready, or you won’t make it through all of the

questions! You may take each quiz twice, but beware: each time, you are likely to get a different assortment of questions. Your highest score will be saved.

4. **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. 2 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 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.
5. **Lab Quizzes:** There will be 6 laboratory quizzes, worth 10 points each. These are intended to be an incentive for frequent studying, and to prepare you for laboratory practical exams. Different sections will receive different quizzes. A total of 50 points are available from lab quizzes. (You will be allowed to drop your lowest lab quiz.)
6. **Lab Make up points:** If you are performing poorly in lab, you may earn replacement points by spending time in open lab hours studying, or consulting the instructor during office hours. Up to 10 lab make up points are available, at the discretion of the instructor. Make up points will not be awarded to students who have all lab notebook/quiz points.
7. **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.
8. **Level up Bonus:** Every two weeks, each student's percentage score will be compared to the student's percentage score at the previous 2-week benchmark. If you level up (i.e. go from one grade to the next higher grade) you will receive 2 level up-bonus points. No more than 14 bonus points will count toward your grade.

Grading Breakdown

Exams	4 @ 100 points	400 points
In Class Quizzes	2 pts @ up to 40 points	40 points
Lab Notebook	Best 10 of 11 @ 6 points	60 points
On-Line Quizzes	Best 10 of 11 @ 5 points	50 points
Lab Quizzes	Best 5 of 6 @ 10 points	50 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	Assignments
W Jan 23	1. Human Body: An Orientation	Syllabus, Chapter 1	Online Review
M Jan 28	2. Tissues	Chapters 4	
W Jan 30	3. Integumentary System	Chapter 5	Quiz 1
M Feb 4	4. Bones and Skeletal Tissue	Chapter 6	Level up 1?
W Feb 6	5. Axial & Appendicular Skeleton	Chapter 7 and 8	Quiz 2
M Feb 11	6. Axial & Appendicular Skeleton	Chapter 7 and 8	
W Feb 13	7. Axial & Appendicular Skeleton	Chapters 7 and 8	Quiz 3
M Feb 18	8. Joints	Chapter 9	Level up 2?
W Feb 20	9. Review exercises		Quiz 4
M Feb 25			Exam I
W Feb 27	10. Skeletal Muscle Tissue	Chapter 10	
M Mar 4	11. Muscles of the Body	Chapter 11	Level up 3?
W Mar 6	12. Muscles of the Body	Chapter 11	Quiz 5
M Mar 11	13. Nervous system and nerve tissue	Chapter 12	
W Mar 13	14. CNS	Chapters 13	Quiz 6
*****	Week of March 18-24: SPRING BREAK		
M Mar 25	15. PNS	Chapters 14	Level up 4?
W Mar 27	16. Autonomic Nervous system and Visceral Sensory Neurons	Chapters 15	Quiz 7
M April 1	17. Special Senses Overview	Chapters 16	
W April 3	18. Review Exercises		Quiz 8
M April 8			Exam II Level up 5?
W April 19	19. The Endocrine System	Chapter 17	
M April 15	20. The Heart and Blood vessels	Chapter 19 and 20	
W April 17	21. The Lymphatic system	Chapter 21	Quiz 9
M April 22	22. The Respiratory system	Chapters 22	Level up 6?
W April 24	23. Digestive System	Chapter 23	Quiz 10
M April 29	24. Urinary System	Chapter 24	
W May 1	25. Reproductive system	Chapter 25	Quiz 11
M May 6	26. Review Exercises		Level up 7?
W May 8			Exam III
R May 16	Final Exam 10:15 am -12:15 pm Sci D101		Final Exam

Lab Schedule

Week of	Lab Topics
Jan 21	No Lab. Online Review. Must take until you pass with 80% or greater score. You will receive NO credit for other assignments until you perform at the 80% level on this online review.
Jan 28	Lab 1. Tissues (Chapter 3). Integumentary System (Chapter 4)
Feb 4	Lab 2. Skeletal System (Chapter 5) LAB QUIZ 1
Feb 11	Lab 3. Skeletal System (Chapter 5)
Feb 18	Lab 4. Joints (Chapter 6) LAB QUIZ 2
Feb 25	Exam I—Lecture: Monday Feb 25 Practical: M-W Feb 25-27
March 4	Lab 5. Muscular System (Chapter 7)
March 11	Lab 6. Muscular System (Chapter 7) LAB QUIZ 3
March 18	SPRING BREAK
March 25	Lab 7. Nervous System (Chapter 8)
April 1	Lab 8. Special Senses (Chapter 10) LAB QUIZ 4
April 8	Exam II—Lecture: Monday, April 8 Practical: M-W, April 8-10
April 15	Lab 9. Cardiovascular system (Chapter 12) Respiratory system (Chapter 14)
April 22	Lab 10. Digestive system (Chapter 15) Urinary system (Ch 16) LAB QUIZ 5
April 29	Lab 11. Reproductive Systems (Chapter 17) LAB QUIZ 6
May 6	Exam III—Practical: M-W, May 6-8 Lecture: Wednesday, May 8