

**BIOL 285 (Anatomy and Physiology Principles)**  
**University of Wisconsin–Stevens Point at Wausau and**  
**University of Wisconsin–Stevens Point at Marshfield**  
**Fall 2020, 4 Credits**

**Instructor:**

Dr. Kristine Prah

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**Lecture:**

3:30PM – 4:45PM Tuesdays & Thursdays by Zoom

<https://uwsp.zoom.us/j/97919620423?pwd=SU9YUIBIBYkxZzBGQzJCamUzWGJwUT09>

Meeting ID: 979 1962 0423

Passcode: 576731

**Laboratory in Marshfield:** 2:00PM – 4:50PM on designated Mondays in Room 526 for students in section 82377

**Laboratory in Wausau:** 2:00PM – 4:50PM on designated Mondays in Room 281 for students in section 82266

**Lab Cohort Groupings:**

Cohort groupings have been posted under “People” on the course page in Canvas. Click on the “Group” tab to see your cohort’s meeting dates. You must remain in your assigned cohort for the entire semester.

**Virtual Zoom Office Hours:**

<https://uwsp.zoom.us/j/93247315949?pwd=OEtjZlFtN0ZGaXpONm9SNlZjaUx6dz09>

1:15 to 2:45 PM on Tuesdays, Wednesday, Thursdays and Fridays

Meeting ID: 932 4731 5949

Passcode: 612597

**Textbook:** *Hole's Human Anatomy and Physiology 15th ed.* (2019) David Shier, Jackie Butler and Ricki Lewis. McGraw Hill. ISBN: 9781259864568. Additional readings which offer more information and additional perspectives will also be provided.

**Course Description:**

An examination of the structure and function of the human body at the molecular, cellular, tissue, organ, and system levels of organization. The integration of these levels of organization within the human organism is emphasized, focusing on body organization, support, movement, and neural control. Lecture, lab, and may also include demonstrations, discussion, and field trips. Does not count toward the Biology major.

**Course Prerequisite:**

One of the following: BIOL 101, BIOL 110, BIOL 111, BIOL 130, BIOL 160, or Instructor Consent

**Course Objectives and Learning Outcomes**

1. Describe the structures and functions of the major molecules of a cell.
2. Describe how the molecules of a cell work together in structure and function.
3. Understand the roles of the various cells in the human body.

4. Describe the structure and role of DNA.
5. Describe the structure and function of skin, bones, joints, muscles, and nerves.
6. Be able to use vocabulary associated with human anatomy and physiology.
7. Design and safely carry out experiments to answer specific scientific questions.
8. Understand how to appropriately use scientific equipment for studying anatomy and physiology.
9. Communicate scientific information in a clear and concise manner.
10. Know the application of anatomy and physiology to health care.
11. Appreciate how knowledge of anatomy and physiology can improve your everyday life and the lives of others.

### **Course Expectations**

Students are expected to “virtually” be present at all lectures or watch recordings of the lectures within 48 hours of the scheduled meeting time. Students will attend laboratory class sessions in person with their cohort group on their assigned cohort meeting dates. When coming to in-person meetings with your lab cohort, you will be assigned a seat, and you must use that seat the entire semester. Also, when attending in-person lab class sessions, students should not use ear buds, laptop computers, cell phones or other electronic devices in class unless they have spoken with the instructor about this first. Respect should be shown for property of the college. Laboratory safety guidelines will be given to students and must be followed completely. The instructor and students are expected to show respect for everyone in the class. Textbook reading assignments should be completed before the designated class meeting time. Students are encouraged to discuss assignments together, but the work that each student hands in should be in his or her own words. Examinations should be completed independently. The policies found in chapter UWS 14 of the Wisconsin Administrative Code will be used in the case of suspected academic misconduct. For effective communication, students are expected to type and spell-check your work on assignments unless notified otherwise. Students should daily check their student email account and Canvas as class announcements and handouts and reading assignments will be given using one or both of these technologies. Scores on assignments and examinations will be posted on Canvas, and an estimation of your course grade will be kept updated during the semester on Canvas.

### **Face Coverings**

At all UW-Stevens Point campus locations, the wearing of face coverings is mandatory in all buildings, including classrooms, laboratories, studios, and other instructional spaces. Any student with a condition that impacts their use of a face covering should contact the [Disability and Assistive Technology Center](#) to discuss accommodations in classes. Please note that unless everyone is wearing a face covering, in-person classes cannot take place. This is university policy and not up to the discretion of individual instructors. Failure to adhere to this requirement could result in formal withdrawal from the course.

### **Health Guidance**

1. Please monitor your own health each day using [this screening tool](#). If you are not feeling well or believe you have been exposed to COVID-19, do not come to class; email your instructor and contact Student Health Service (715-346-4646). As with any type of absence, students are expected to communicate their need to be absent and complete the course requirements as outlined in the syllabus.
2. Maintain a minimum of 6 feet of physical distance from others whenever possible.
3. Do not congregate in groups before or after class; stagger your arrival and departure from the classroom, lab, or meeting room.
4. Wash your hands or use appropriate hand sanitizer regularly and avoid touching your face.
5. Please maintain these same healthy practices outside the classroom.

### **Laboratory Safety**

Closed-toe shoes will also be required at all times when you are in the laboratory classroom. You should also wear long pants or a long skirt instead of shorts in the laboratory classroom.

### **Academic Support Resources**

UWSP students have academic support resources available to them for FREE. The Tutoring-Learning Center (TLC) offers tutoring services including one on one and drop-in tutoring services, academic skills workshops, and one on one academic coaching appointments. For additional information please contact:

- *Marshfield* – Marie Janz, the Academic Success Coordinator, via email [mjanz@uwsp.edu](mailto:mjanz@uwsp.edu) or phone 715-898-6036.
- *Wausau* - Megan Sippel, the Academic Success Coordinator, via email [msippel@uwsp.edu](mailto:msippel@uwsp.edu) or phone 715-261-6148.

### **Care Team**

The University of Wisconsin-Stevens Point is committed to the safety and success of all students. The Office of the Dean of Students supports the campus community by reaching out and providing resources in areas where a student may be struggling or experiencing barriers to their success. Faculty and staff are asked to be proactive, supportive, and involved in facilitating the success of our students through early detection, reporting, and intervention. As your instructor, I may contact the Office of the Dean of Students if I sense you are in need of additional support which individually I may not be able to provide. You may also share a concern if you or another member of our campus community needs support, is distressed, or exhibits concerning behavior that is interfering with the academic or personal success or the safety of others, by reporting here: <https://www.uwsp.edu/dos/Pages/Anonymous-Report.aspx>.

### **Title IX**

UW-Stevens Point is committed to fostering a safe, productive learning environment. Title IX and institutional policy prohibit discrimination on the basis of sex, which includes harassment, domestic and dating violence, sexual assault, and stalking. In the event that you choose to disclose information about having survived sexual violence, including harassment, rape, sexual assault, dating violence, domestic violence, or stalking, and specify that this violence occurred while a student at UWSP, federal and state laws mandate that I, as your instructor, notify the Title IX Coordinator/Office of the Dean of Students. Please see the information on the Dean of Students webpage for information on making confidential reports of misconduct or interpersonal violence, as well as campus and community resources available to students. Dean of Students: <https://www.uwsp.edu/DOS/sexualassault> Title IX page: <https://www.uwsp.edu/hr/Pages/Affirmative%20Action/Title-IX.aspx>

### **Disability and Accommodations**

In accordance with [federal law and UW System policies](#), UWSP strives to make all learning experiences as accessible as possible. If you need accommodations for a disability (including mental health, chronic or temporary medical conditions), please visit with the [Disability and Assistive Technology Center](#) to determine reasonable accommodations and notify faculty. After notification, please discuss your accommodations with me so that they may be implemented in a timely fashion. **DATC contact info:** [datctr@uwsp.edu](mailto:datctr@uwsp.edu); 715/346-3365; 609 Albertson Hall, 900 Reserve Street

### **Academic Integrity**

Academic Integrity is an expectation of each UW-Stevens Point student. Campus community members are responsible for fostering and upholding an environment in which student learning is fair, just, and

honest. Through your studies as a student, it is essential to exhibit the highest level of personal honesty and respect for the intellectual property of others. Academic misconduct is unacceptable. It compromises and disrespects the integrity of our university and those who study here. To maintain academic integrity, a student must only claim work which is the authentic work solely of their own, providing correct citations and credit to others as needed. Cheating, fabrication, plagiarism, unauthorized collaboration, and/or helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. Failure to understand what constitutes academic misconduct does not exempt responsibility from engaging in it. For more information on UWS chapter 14 visit: <https://www.uwsp.edu/dos/Pages/Student-Conduct.aspx>

### **Recording of Lectures**

Zoom recordings of the class lecture periods will be made and posted on our class Canvas site.

### **Absences and Tardiness**

You are responsible for material covered in all class sessions, including class sessions that you miss partially or entirely. If you miss a lecture session, please watch the Zoom recording. If you miss an in-person lab cohort meeting, please check with your instructor. Assignments must be handed in on time (this includes lecture and laboratory assignments that were given or due in your absence) unless your instructor has given you permission beforehand to hand in the assignment late.

### **Make-Up Labs and Exams**

If you must miss a class session, please contact your instructor and also watch Zoom lecture recordings that you missed. Notify the instructor in advance if you need to reschedule an examination. An acceptable reason must be given for needing to reschedule the testing time. Your instructor will determine if the reason for rescheduling the examination is acceptable. Make-up examinations must be taken within 48 hours of the original test date unless unusual circumstances exist. If you have a reason to reschedule the final exam, please notify your instructor by December 10.

### **Late Assignments**

Hand in assignments on time. If you are unable to hand in a lecture assignment or laboratory assignment on time, notify the instructor prior to the time it is due. You must provide an acceptable excuse for handing in an assignment late. Your instructor will determine if an absence is excused. Failure to hand in assignments on time may delay the grading of your work. You may lose some or all of the points from a late assignment if your instructor has not given you permission to hand in the assignment late. The late penalty will usually be a loss of 10% of the points per day.

### **Proper Use of Course Materials**

Course materials and recordings for BIOL 285 are protected intellectual property at UW-Stevens Point. Students in this course may use the materials and recordings for their personal use related to participation in this class. Students may also take notes solely for their personal use. Students may not copy or share course materials and recordings outside of class, including posting on internet sites or selling to commercial entities. Students are also prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor's express written permission. Unauthorized use of these copyrighted lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct.

### Exams, Quizzes & Assignments

1. **Lecture Exams (100 points each for a total of 200 points):** Two online lecture exams will be given on the dates indicated in the class schedule below. The exams will have a time limit, but will be open-book and open-notes.
2. **Lab Exams (100 points each for a total of 200 points):** Two online lab exams will be given on the dates indicated in the class schedule below. The exams will have a time limit, but will be open-book and open-notes.
3. **Quizzes (110 points total):** There will be eleven 10-point quizzes covering lecture material. The quizzes will be online, open-book and open-notes. The quizzes will due on the following Mondays:
  - September 14
  - September 21
  - September 28
  - October 5
  - October 19
  - October 26
  - November 2
  - November 9
  - November 16
  - November 23
  - November 30
4. **Assignments: (190 points total):** Throughout the semester you will work on various assignments, including clinical case studies, data analysis or other kinds of activities intended to improve your problem-solving and critical-thinking skills and ability to apply course material.
5. **Final Examination (100 points):** On December 15, there will be a *comprehensive* final exam on *lecture* material.

### Summary of Graded Activities & Grading Scale

<u>Graded Activity</u>	<u>Points</u>	<u>Grading Scale</u>	
Lecture Exams	200	≥92% = A	72-77% = C
Lab Exams	200	90-91% = A-	70-71% = C-
Quizzes	110	88-89% = B+	68-69% = D+
Assignments	190	82-87% = B	60-67% = D
Final Exam	100	80-81% = B-	<60 % = F
Total	800	78-79% = C+	

### Lecture Schedule (Subject to Reasonable Changes)

Day	Topic	Reading
Sept. 3	Introduction to Anatomy & Physiology	Chapter 1
Sept. 8	Anatomical Terminology & Body Organization	Chapter 1
Sept. 10	Biochemistry	Chapter 2
Sept. 15	Biochemistry (continued ) & Enzymology	Chapter 2 & 4.2
Sept. 17	Cell Biology	Chapter 3
Sept. 22	Cell Biology (continued)	Chapter 3
Sept. 24	Cell Biology (continued)	Chapter 3
Sept. 29	Cellular Metabolism	Chapter 4
Oct. 1	Cellular Metabolism (continued)	Chapter 4
Oct. 6	Cellular Metabolism (continued)	Chapter 4
Oct. 8	Histology	Chapter 5
Oct. 13	Histology (continued)	Chapter 5
Oct. 15	Histology (continued)	Chapter 5
Oct. 20	<b>Lecture Exam I on Chapters 1 – 5</b>	
Oct. 22	Integumentary System	Chapter 6
Oct. 27	Integumentary System (continued)	Chapter 6
Oct. 29	Skeletal System	Chapter 7
Nov. 3	Skeletal System (continued)	Chapter 7
Nov. 5	Joints	Chapter 8
Nov. 10	Muscular System	Chapter 9
Nov. 12	Muscular System (continued)	Chapter 9
Nov. 17	<b>Lecture Exam II on Chapters 6 - 9</b>	
Nov. 19	Nervous System	Chapter 10
Nov. 24	Nervous System (continued)	Chapter 10
Dec. 1	Nervous system (continued)	Chapter 11
Dec. 3	Nervous System (continued)	Chapter 11
Dec. 8	Sensory Systems	Chapter 12
Dec. 10	Sensory Systems (continued)	Chapter 12
Dec. 15	<b>Comprehensive Final <i>Lecture</i> Exam on Chapters 1 -12</b>	

### **Lab Schedule (Subject to Reasonable Changes)**

#### **September 14 through October 5**

1. Online Assignments
  - a. Data Analysis, Experimental Design & Scientific Method
  - b. Body Organization & Anatomical Terminology
  - c. Enzymology
  - d. Cellular Metabolism
  - e. Microscopy, Cells & Histology
2. One face-to-face cohort meeting to further discuss the online assignments (see Canvas for your meeting date)

#### **October 12**

1. Online lab exam covering lab material from September 14 through October 5

#### **October 19 through November 30**

1. Online Assignments
  - a. Integumentary System
  - b. Skeletal System & Joints
  - c. Muscular System
  - d. Nervous System
  - e. Sensory Systems
2. One face-to-face cohort meeting to further discuss the online assignments (see Canvas for your meeting date)

#### **December 7**

1. Online lab exam covering lab material from October 19 through November 30