

BIOL 286 (Anatomy & Physiology Connections)
University of Wisconsin – Stevens Point at Wausau and
University of Wisconsin – Stevens Point at Marshfield
Spring 2021, 4 Credits

Instructor:

Dr. Kristine Prahll

Office: Room 285-B in Wausau; Room 524 in Marshfield

E-mail: kprahl@uwsp.edu

Virtual Zoom office hours: 8:00-10:00 AM on Mondays and Thursdays, and other times by appointment

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

<https://uwsp.zoom.us/j/95953916012?pwd=N042eFNRS HdWcDRPMkhreGNkRTBnUT09>

Meeting ID: 959 5391 6012

Passcode: 0v476d

Laboratory in Wausau: 2:00PM – 4:50PM on designated Mondays in Room 281 for students in section 41298

Laboratory in Marshfield: 2:00PM – 4:50PM on designated Mondays in Room 526 for students in section 41292

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.

Office hour link: Mondays and Thursdays from 8-10 AM

<https://uwsp.zoom.us/j/93894175052?pwd=aWd1WGRTSkI6cmErU3hMemNWaWZ2Zz09>

Meeting ID: 938 9417 5052

Passcode: 323443

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. This is the second semester of a two-semester sequence. 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. Explain the functions of the following human body systems: endocrine, cardiovascular, lymphatic, immune, digestive, respiratory, urinary and reproductive.
2. Describe the structure and functions of the major parts of the following human body systems: endocrine, cardiovascular, lymphatic, immune, digestive, respiratory, urinary and reproductive.
3. Explain the importance of maintaining water, pH and electrolyte balance.
4. Be able to use vocabulary associated with human anatomy and physiology.
5. Design and safely carry out experiments to answer specific scientific questions.
6. Understand how to appropriately use scientific equipment for studying anatomy and physiology.
7. Communicate scientific information in a clear and concise manner.
8. Know the application of anatomy and physiology to health care.
9. Know the applications of genetics and genomics to health care.
10. Appreciate how knowledge of anatomy and physiology can improve their everyday lives and the lives of others.

Course Expectations

Students are expected to be present at all virtual lecture meetings and all meetings of their laboratory cohort. Some discussion-based assignments will be done in some class sessions. So, unexcused class absences may negatively affect a student's course grade. Please discuss with your instructor as soon as possible the reason for any absences which you feel should be excused, so that you can be given the opportunity to make up any in-class work that you will miss. 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 should come to the labs prepared, having read the introductory material (if any) before the designated 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 without using any books or notes. 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 some class announcements and some handouts and some reading assignments will be given using 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.

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 instructors, we may contact the Office of the Dean of Students if we sense you are in need of additional support which individually we 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 we, 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 your instructor(s) so that they may be implemented in a timely fashion. **DATC contact info:** 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.

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. The tutors are UWSP students who have done well in their classes and who are here to share their successful study habits and biology content knowledge to help others succeed. Discussing biological concepts and processes together clarifies and solidifies knowledge, and the tutors are eager to study with you. The TLC will offer two main forms of biology tutoring during Spring 2021:

- **Drop-In Tutoring.** Tutors are waiting in a Zoom room where students can “drop-in” for assistance. No appointment or registration is required and attendance is flexible. The schedule and Zoom links can be found here: <http://www.uwsp.edu/tlc/Pages/dropInTutoring.aspx>.
- **One-on-One Tutoring.** Tutors are available for weekly, recurring appointments. Weekly attendance is required, as this service is designed for long-term assistance. To sign up, students can submit a request form through the TLC webpage: <https://www.uwsp.edu/tlc/Pages/Mathandscischedules.aspx>. Appointments are made based upon tutor availability – the TLC cannot guarantee that every student will be matched with a tutor. One-on-One Tutoring is **FREE** for all UWSP students during Spring 2021! For additional information please contact:
 - *Marshfield* – Marie Janz, the Academic Success Coordinator, via email mjanz@uwsp.edu or phone 715-898-6036.
 - *Wausau* – Maysee Cha, the Academic Success Coordinator, via email mcha@uwsp.edu or phone 715-261-6148.

Proper Use of Course Materials

Course materials and recordings for BIOL 286 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.

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 have an acceptable reason for handing in an assignment late. You will not be allowed to make up in-class discussion assignments unless you have an acceptable reason for missing the class session. 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 standard late penalty will be a loss of 10% of the points per day.

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 and please also check with your instructor. If you miss an in-person lab cohort meeting, please check with your instructor in advance of the cohort meeting. 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 Exams

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 May 12.

Participation in Co- and Extracurricular Activities

You are encouraged to participate in co- and extracurricular activities as you are interested and able. You are responsible for material covered in class sessions that you miss because of participation in co- or extracurricular activities. You are also responsible for assignments given and/or due during class sessions that you miss because of such activities. These assignments must be handed in on time. If you must miss an exam because of participation in co- or extracurricular activities, you are responsible for notifying the instructor in advance of the exam. The terms of make-up exams and late assignments as stated in above sections of this syllabus apply.

Incomplete Grade

If you are unable to complete your work in a course due to extenuating circumstances or if you need to extend your research or performance beyond the normal limits of a term, you may ask for a temporary grade of “incomplete” in the course. An “incomplete” should be reserved for the completion of a definable amount of work (for example, one term paper or one exam) that occurs near the end of the semester. The “incomplete” gives you more time to complete a limited amount of missing work defined by your instructor.

Navigate Student App

For those of you looking to connect with other students in the course for study groups, the Navigate student app has a feature called **Study Buddies**. Here, you can find a list of other students who have indicated they are interested in forming a study group. If you are the first, you will be sent notifications

when other students join. You can select who you want to connect with and can leave the group at any time. Additionally, the Navigate student app can help you with the following at UWSP:

- Schedule appointments
- Remove Holds from your account
- Find important resources
- Learn of key dates and important to-dos on campus
- View your class schedule

Accessing the Navigate student app: For students who have already downloaded the Navigate smart phone app, choose the **Study Buddies** icon, and a full list of your courses will appear. Each section shows how many buddies are in the group. The free Navigate app is available to download from any mobile operating system. For students without a smart device, a desktop version of the app is available here: <https://uwsp.navigate.eab.com/app>

Laboratory Safety and Clothing

Closed-toe shoes that cover the top of the foot are required for participation in all of the laboratory sessions. You must also wear long pants or long skirt during lab classes. You will not be able to participate in the lab class without having appropriate shoes and functional clothing that completely covers legs.

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:
 - February 1
 - February 8
 - February 15
 - March 1
 - March 8
 - March 15
 - March 29
 - April 5
 - April 19
 - April 26
 - May 10
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. One of the assignments will be a pathophysiology project, worth 80 points and described in a handout on Canvas.
5. **Final Examination (100 points):** On May 19, 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-
Weekly 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
Jan. 26	Course Introduction; Endocrine System	Chapter 13
Jan. 28	Endocrine System, continued	Chapter 13
Feb. 2	Blood	Chapter 14
Feb. 4	Blood, continued	Chapter 14
Feb. 9	Cardiac Muscle and Cardiovascular System	Section 9.5 and Chapter 15
Feb. 11	Cardiovascular System, continued	Chapter 15
Feb. 16	Lymphatic & Immune Systems	Chapter 16
Feb. 18	Lymphatic & Immune Systems, continued	Chapter 16
Feb. 23	Online Lecture Exam 1 on Chapters 13 – 16 and Section 9.5 (No Zoom Meeting)	
Feb. 25	Digestive System	Chapter 17
March 2	Digestive System	Chapter 17
March 4	Nutrition & Metabolism	Chapter 18
March 9	Nutrition & Metabolism	Chapter 18
March 11	Respiratory System	Chapter 19
March 16	Respiratory System	Chapter 19
March 18	Urinary System	Chapter 20
March 30	Urinary System	Chapter 20
April 1	Water, Electrolyte & pH Balance	Chapter 21
April 6	Water, Electrolyte & pH Balance	Chapter 21
April 8	Water, Electrolyte & pH Balance	Chapter 21
April 13	Online Lecture Exam 2 on Chapters 17 – 21 (No Zoom Meeting)	
April 15	Male Reproductive System	Chapter 22
April 20	Male Reproductive System;	Chapter 22
April 22	Female Reproductive System;	Chapter 22
April 27	Female Reproductive System	Chapter 22
April 29	Pregnancy, Growth & Development	Chapter 23
May 4	Pregnancy, Growth & Development	Chapter 23
May 6	Genetics and Genomics	Chapter 24
May 11	Genetics and Genomics	Chapter 24
May 13	Course Wrap-Up and Review	
May 19	Comprehensive Final Lecture Exam (Online)	

Lab Schedule (Subject to Reasonable Changes)

January 25 through February 15

1. Online Assignments
 - a. Scientific Literature
 - b. Endocrine System
 - c. Blood Typing
 - d. Cardiovascular System
2. One face-to-face cohort meeting to further discuss the online assignments (see Canvas for your meeting date)

February 15 through February 22

1. Online lab exam covering lab material from January 25 through February 15. The exam can be taken any day from February 15 through February 22.

February 22 through March 15

1. Online Assignments
 - a. Digestive System
 - b. Respiratory System and Spirometry
2. One face-to-face cohort meeting to further discuss the online assignments (see Canvas for your meeting date)

March 29 through April 19

1. Online Assignments
 - a. Urinary System and Urinalysis
 - b. Reproductive System
2. One face-to-face cohort meeting to further discuss the online assignments (see Canvas for your meeting date)

April 19 through April 26

1. Online lab exam covering lab material from February 22 through April 19. The exam can be taken any day from April 19 through April 26

May 3 - Pathophysiology presentation due online

May 10 - Pathophysiology peer comments due online