

Biology 20 (Biol 20) Human Anatomy

<i>Semester: Spring 2021</i>		<i>Reedley Community College</i>
Instructor: Dr. Christopher Emerling Email: christopher.emerling@reedleycollege.edu		<i>Class No. 55075, 55076</i> Lecture Times: Online
Zoom ID: 990 6009 7271 Office Hours: Mon 11 am –12 pm, Tues 1–2 pm, Wed 5-6 pm, Thurs 12-1 pm, Fri 11 am-12 pm Can request appointments <i>Class Dates: 1/11/21- 5/21/21</i>		Lab Times: Online

Catalog Description:

This is a course providing a basic understanding and working knowledge of the human body with emphasis on the structure of each major system. The interrelationship between human systems and the relationships between the structure and functions of each system will be studied at several levels: cellular, tissue, organ, system, and organismal.

Prerequisites:

Biology 1 or 5 or 11A. ADVISORIES: English 1A or 1AH and Mathematics 11 or 45. (A, CSU-GE, UC, I) (C-ID BIOL 110)

Course Objectives:

In the process of completing this course, students will:

1. Develop important critical thinking skills as they evaluate lecture topics and the results of laboratory demonstrations and experiments.
2. Develop important manual dexterity skills associated with dissections, free-hand drawings, completion of anatomical color plates, and the operation of microscopes, computers, and other laboratory equipment.*
3. Learn how to use scientific methods.
4. Identify the basic structure and function of each human system at the macroscopic and microscopic levels.

Student Learning Outcomes:

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

1. Describe functions of the cells and tissues
2. Describe the functions of the body systems
3. Identify the major body systems macroscopically
4. Identify the major body tissue and cell types microscopically
5. Use a microscope to identify tissues and cells

Required Course Materials

- Textbook: Anatomy & Physiology, OpenStax (available for **free** on **Canvas**)
- McGraw-Hill Connect A&P Labs Suite – **purchase** in Bookstore or on McGraw-Hill's website

Technology Requirements

- The web/online portion of this course will occur through Canvas and McGraw-Hill's Connect. All students must have access to a device with internet access to that allows students to retrieve and complete assignments through Canvas and Connect.
- Check Canvas and your Reedley College email accounts regularly (multiple times per week) for announcements.

- If you need access to technology in order to complete your course, please make sure to contact the [Information Center](#) to check out a laptop or other needed technology.

TENTATIVE SCHEDULE

Unit	Week	Lecture(s)	Assignments
Unit 1	Week 1: 1/11–1/15	Lecture 1: Intro to the Human Body Lecture 2: Cells	Lab 1: Body Orientation, Cells & Chemistry
	Week 2: 1/18–1/22	Lecture 3: Histology	Lab 2: Tissues
	Week 3: 1/25–1/29	Lecture 4: Integumentary System	Lab 3: Integumentary System Quiz and Quiz Reflection
	Week 4: 2/1– 2/5	Exam Week	Lab Practical 1, Lecture Exam 1
Unit 2	Week 5: 2/8– 2/12	Lecture 5: Skeletal System	Lab 4: Skeletal System
	Week 6: 2/15–2/19	Lecture 6: Bone Anatomy Lecture 7: Articulations, Knee and Shoulder	Lab 5: Muscular System
	Week 7: 2/22–2/26	Lecture 8: Muscular System	Lab 6: Muscle Origins and Insertions Quiz and Quiz Reflection
	Week 8: 3/1– 3/5	Exam Week	Lab Practical 2, Lecture Exam 2
Unit 3	Week 9: 3/8– 3/12	Lecture 9: Nervous System	Lab 7: Nervous System
	Week 10: 3/15–3/19	Lecture 10: Senses	Lab 8: Senses Lab 9: Endocrine
	Week 11: 3/22–3/26	Lecture 11: Endocrine System Lecture 12: Cardiovascular System	Lab 10: Cardiovascular Quiz and Quiz Reflection
	3/29–4/2	SPRING BREAK	No assignments due
	Week 12: 4/5–4/9	Exam Week	Lab Practical 3, Lecture Exam 3

Unit 4	Week 13: 4/12–4/16	Lecture 13: Lymphatic System Lecture 14: Respiratory System	Lab 11: Lymphatic System Lab 12: Respiratory System
	Week 14: 4/19–4/23	Lecture 15: Digestive System	Lab 13: Digestive system
	Week 15: 4/26–4/30	Lecture 16: Urinary System	Lab 14: Urinary System; Lab 15: Reproductive System, Quiz and Quiz Reflection
	Week 16: 5/3–5/7	Lecture 17: Reproductive System	Lab Practical 4, Lecture Exam 4
Finals	Week 17: 5/10–5/14	Exam and Review Week	Reflection Assignment
	Week 18: 5/17–5/21	Final Week	Final Cumulative Lecture Exam

ATTENDANCE AND DROP/ADD POLICY

Attendance is expected of all students every week in this class. Given that we are in an online environment, “attendance” exists in the form of completing assignments.

In order to avoid being dropped from this class, you must complete the following tasks on Canvas by **the end of the second day of instruction**:

1. Complete the Student Survey
2. Complete the Syllabus Quiz
3. Post a profile picture of yourself (not an avatar) on Canvas

Failure to complete ALL of the tasks listed above will result in a student being dropped from this course after the first week of instruction.

Beyond this, I reserve the right to drop students (both enrolled and waitlisted) based on the following policy:

1. Student does not complete the first week’s assignment
2. Student does not complete the second week’s assignment and does not respond to contact efforts from the professor during the third week

ASSESSMENTS

Category	Assignment Description	Points
Lecture	Lecture Exams (4)	20% of grade (5% each)
	Final Cumulative Exam	10% of grade
	Quizzes (4)	8% of grade (2% each)
	Quiz Reflections (4)	8% of grade (2% each)
	Online discussions (15)	3% of grade (0.2% each)
	Final Reflection Assignment	1% of grade
Lab	Labs Activities	20% of grade
	Lab Practical Exams (4)	30% of grade (7.5% each)

The final course grade is based on the traditional scale:

Percent Range	Grade
90-100	A
80-89.99	B
70-79.99	C
60-69.99	D
Less than 60	F

Course grades are non-negotiable; Instructor reserves the right to adjust individual tests and/or assignments should it be to the benefit to the entire class. Final grades will not be curved or adjusted in any fashion and I do not round up grades to the next letter grade.

LECTURE ASSESSMENTS

Lecture exams These may be any combination of multiple-choice, true-false, matching, short-answer and essay questions based on the main objectives of each lecture and may be based on words only or may include images. Given that cheating in online courses is pervasive, efforts will be made to ensure that the exam reflects your actual knowledge as opposed to you reading off of your notes or googling answers, including time limits, randomization of questions, etc. Some questions will require critical thinking and cannot simply be searched in your notes or online. Please note that I require spelling and grammar be as close to accurate as reasonably possible; spelling must be at least phonetically approximate, such that it is unambiguous what your answer is. If I can't clearly understand it, I can't give you points it. Lecture Exams will be given online over a 72-hour period to accommodate schedules as reasonably as possible.

Lecture final exam This will be comprehensive. Since this course is necessary for advancement to Human Physiology (Biol 22), it is important that you retain as much knowledge as possible from this course to ease your way in the following semester.

Discussion board posts Every week, there will be required Discussion board posts to ensure you all get a chance to have student-student interactions. These discussions will largely be used to give you ample practice with the material, particularly by having students generate questions for others to answer.

Note on discussion board/online etiquette: All students are expected to be respectful when posting and reply to their peer's posts. The purpose of these discussions is to facilitate peer learning in a safe and respectful environment. Students who make disrespectful and/or inappropriate posts/comments in the discussion board forums will be subject to Reedley College Disciplinary Procedures (see link below under the College Policy section).

Quizzes These will not be traditional quizzes for which you will be graded on the accuracy of your answers. Rather, these will be used to prepare you for the exams by giving you a feeling for the format and helping you to assess your level of knowledge so you know what to focus on before the exam. Furthermore, there will be reflection assignments to help you to evaluate how you're performing on these quizzes.

LAB ASSESSMENTS

Lab assignments These will complement the content we are learning in lecture, predominantly involving photos of cadavers, microscope slides and models in the McGraw-Hill Connect A&P Labs Suite. In anatomy, this is arguably the toughest portion given that it will require a lot of work and discipline to learn all of the relevant parts of human anatomy, and being able to recognize them using different images, angles, etc. The primary tool within the McGraw-Hill Connect A&P Labs Suite that we will be using is AP& Revealed, so ensure that this is working.

Lab practicals These will be based on the work done in the laboratory assignments. They may include multiple choice, true-false, matching, and short answer questions, and will predominantly use images from the lab assignments.

EXTRA CREDIT

I do not provide extra credit opportunities in a traditional sense. My belief is that you need to learn and complete what we are doing in class, not something beyond the scope of the normal content. However, I do believe strongly in providing the chance to learn from your mistakes and redeem yourself. As such, I do have opportunities to earn back points on certain assessments, as part of my 'redemption' policy.

REDEMPTION POLICY

Students often make mistakes on assignments and exams, whether due to lack of proper studying or personal life crises. However, the way classes are typically structured, any damage done early in the semester can permanently damage a student's standing, such that their grade is irrecoverable. This is problematic from the perspective of learning because it punishes mistakes and without rewarding any learning from those mistakes. To correct for this imbalance, I will be providing two forms of 'redemption' in the course, including 'exam autopsies' and final exam redemption. Typically, only on the first exam, you will have an exam autopsy in which you will get a chance to earn back points if you reflect on everything you missed. The final exam redemption involves using your final exam score to boost your score on certain previous assessments, should the grade be high enough. The hope is that this incentivizes students to learn from their mistakes and apply their new knowledge on the final exam.

An example of the final exam redemption policy is as follows: if you received a 56% on exam 3, but you received an 86% on the final, your exam 3 score will change to 86%. In other words, if your final exam grade (%) is higher than a qualifying assessment grade, then I will replace that grade with your final exam grade %. More specifics regarding this policy will be given later on in the course. A similar policy may apply to the labs, but would involve students taking an optional final lab practical, and will depend largely on time and interest.

LATE ASSIGNMENTS AND EXAM MAKE-UP POLICY

Unless otherwise indicated, assignments can be turned in late, but for each day late, I will automatically deduct 10% of the possible points. One "day late" constitutes turning something in within the 24 hours following an assignment due date and time. For example, if an assignment is due on a Monday @ 7:00 pm, any point between Monday @ 7:01 pm and Tuesday @ 7:00 pm, the assignment will lose 10% of the

points. This will policy will apply to discussions up to a point, as students that reply to slowly to other students will render the discussions irrelevant.

Exams can only be made up if the student falls victim to extreme, **documentable** circumstances, and therefore making up the exam will be fully at the discretion of the instructor. A file entitled "Online Exam Make-Up Policy" can be requested by students that wish to read it, and it will be offered to students in such situations.

COMMUNICATION POLICY

The best way to get ahold of me is to send me a direct message through Canvas. The second best way is to email me at christopher.emerling@reedleycollege.edu. Don't know how to send a message in canvas? Check out this quick guide [How to send a message in canvas](#).

- Please allow a 24hr response time on business days (Mon-Fri). I tend to be very prompt with my email responses, however, there are times when it may take me up to 24hrs to respond. As a rule, I try to prioritize messages and e-mails that require an immediate response over those that are less urgent, so please indicate if the message is urgent. If you do not receive a response from me after 24hrs then please double check that you have contacted me correctly (e.g., was it the correct email address?), and then try both Canvas messages and e-mail.
- Emailing and messaging can be used 24/7. If I expect to be away from my computer for any significant length of time, you will be notified in advance.

OFFICE HOURS

Given that we are in 100% online environment, my "office" hours will not take place in an office, but rather on the online video meeting app, Zoom. We will be using the same Zoom ID throughout the semester for all class related meetings. The ID and my office hours are posted on the first page of this syllabus (office hours may not be posted in the first week).

CANVAS

All lecture videos, lecture slides, discussion boards, quizzes, and other lecture assignments will be located on Canvas, which you can access here: <https://scccd.instructure.com/login/ldap>. Please turn on e-mail notifications for Announcements in Canvas as well or check them regularly (i.e., at least once a day).

DROPPING THE COURSE

It is the student's responsibility to drop themselves from the course, not the professor. Here are some important dates, derived from the Reedley College Academic Calendar:

https://www.reedleycollege.edu/documents/academics/class_schedule_2020_2021.pdf

January 21st: last day to drop for full refund

January 28th: last day to drop to avoid a "W" in person

January 30th: last day to drop to avoid a "W" on WebAdvisor; last day to Add

February 11th: last day to change to/from Pass/No Pass grading basis

March 11th: last day to drop

TUTORING

We have a tutor embedded in our course this semester. If you have not had a biology class in over a year, working with a tutor will get you up to speed. The tutors are former students who know how to study for the class. I highly recommend most students to receive tutoring. Students that are getting tutored are not 'less than' others who don't go to tutors. I received tutoring when I was in college (calculus and physics), and this tutoring helped me enormously to succeed in these classes.

COLLEGE POLICIES

The university has several policies that you will be expected to adhere to in my course. The policies on **Disabled Students Programs and Services**, **Student Conduct Standards**, **Academic Dishonesty**, and the **Computer/Network Equipment Use Policy**, portions of which are below, can all be found in the Reedley College Catalog.

Academic Dishonesty: “Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences.” Reedley College Catalog. In an online classroom, academic dishonesty can manifest in (1) copying other students’ work, (2) sharing answers on exams and much more. When you cheat, not only do you defraud the college, but you devalue your education and the education of others by weakening the integrity of our institution. Furthermore, in my experience, cheaters almost never succeed at their career goals, so don’t ruin your opportunity to learn!

Please see the Student Conduct Standards and Grievance Procedures Handbook available in the Vice-President of Student Services office, or at the links listed below.

Student Conduct Standards: <https://www.reedleycollege.edu/about/about-us/policies-and-procedures/student%20conduct%20standards.html>

Grievance Procedures: <https://www.reedleycollege.edu/about/about-us/policies-and-procedures/grievance-procedures.html>**Academic Accommodations:** If you have a verified need for an academic accommodation or materials in alternate media (e.g. Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact the instructor as soon as possible.

FINAL NOTES

Every syllabus represents the intended roadmap and structure of the course, but due to unforeseen events and/or feedback during the semester, adjustments may be necessary. This is a reminder that some details described in this syllabus or potentially subject to change at the discretion of the instructor, but he will inform you as promptly and clearly as possible as to the reasoning for any changes.

Student Learning Outcomes are statements about what the discipline faculty hope you will be able to do at the end of the course. This is NOT a guarantee: the ultimate responsibility for whether you will be able to do these things lies with you, the student. In addition, the assessment of Student Learning Outcomes is done by the department in order to evaluate the program as a whole, and not to evaluate individual faculty performance.

Course Objective 2 unfortunately cannot be completed in a fully online course.