

U200-115: Human Biology

Course Format: Online

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Course credits: 3

Pre/Corequisites: None; Appropriate for advanced high school and first-year or higher college students.

Course Description: This course investigates the structure and function of the human body as related to areas of health and disease. You will study the: chemistry of life, organization and regulation, cardiovascular, nervous, reproductive, immune, respiratory, digestive, and lymphatic systems; infectious diseases, human evolution, ecology, human interactions with ecology, and human sustainability.

Required Course Materials

Textbook

- Mader, S. & Windelspecht, M. (14th Ed.). (2016). *Human Biology (WCB General Biology)*. New York, NY: McGraw-Hill Education. ISBN-13: 978-1259245749

Hardware

- You will need a webcam, speakers and a microphone because you will complete your exams through an online proctor, requiring all three components.
- For some assignments, you will need to upload a scanned document of completed work. If you do not have access to a scanner, you can take a picture, and upload the picture in place of a scanned document.

Course Learning Objectives

- Recall and apply course terminology to answers, where appropriate.
- Interpret graphically presented information.
- Provide suggestions for treatments and/or prevention methods for diseases and disorders.

Course Overview

MODULE #	MODULE TOPIC	EVALUATED ACTIVITIES
Unit 1: Atoms to Organ Systems		
1	Exploring Life and Science	<ul style="list-style-type: none"> Syllabus Quiz Personal Introduction Discussion Scientific Method Quiz Scientific Method Dropbox
2	Chemistry of Life	<ul style="list-style-type: none"> Chemistry Quiz Chemistry Dropbox
3	Cell Structure and Function	<ul style="list-style-type: none"> HeLa Cells Discussion Cells Quiz Cells Dropbox
4	Organization and Regulation of Body Systems	<ul style="list-style-type: none"> Organ Donation (Discussion & Dropbox) Tissues Quiz Tissues Dropbox
	Unit Exam: Atoms to Organ Systems	<ul style="list-style-type: none"> Exam 1

Unit 2: Blood, Lymph, and Pathogens		
5	Cardiovascular System: Heart and Blood Vessels	<ul style="list-style-type: none"> • Cardiovascular Quiz • Cardiovascular Dropbox
6	Cardiovascular System: Blood	<ul style="list-style-type: none"> • Blood Donations Discussion • Blood Quiz • Blood Dropbox
7	The Lymphatic and Immune Systems	<ul style="list-style-type: none"> • Vaccines (Discussion & Dropbox) • Immune Quiz • Immune Dropbox
8	Biology and Infectious Diseases	<ul style="list-style-type: none"> • HIV Discussion • Disease Quiz
	Unit Exam: Blood, Lymph, and Pathogens	<ul style="list-style-type: none"> • Exam 2
Unit 3: Eat, Breathe, Reproduce, and Control		
9	Digestive System and Nutrition	<ul style="list-style-type: none"> • Hunger, Nutrition, and Poverty Discussion • Digestive Quiz • Digestive Dropbox
10	Respiratory System	<ul style="list-style-type: none"> • Respiratory Quiz • Respiratory Dropbox
11	Nervous System	<ul style="list-style-type: none"> • Drugs Discussion • Nervous System Quiz • Nervous System Dropbox
12	Reproductive System	<ul style="list-style-type: none"> • Reproduction Discussion • Reproduction Quiz
	Unit Exam: Eat, Breathe, Reproduce, and Control	<ul style="list-style-type: none"> • Exam 3
Unit 4: Humans and the Environment		
13	Human Evolution	<ul style="list-style-type: none"> • Evolution Quiz • Evolution Dropbox
14	Global Ecology and Human Interferences	<ul style="list-style-type: none"> • Climate Change Discussion • Ecology Quiz • Ecology Dropbox
15	Human Population, Global Resources, and Conservation	<ul style="list-style-type: none"> • Sustainability Discussion • Resource Sustainability Quiz • Resource Sustainability Dropbox
	Unit Exam: Humans and the Environment	<ul style="list-style-type: none"> • Exam 4

Evaluation Methods

Your final grade will be based on your performance on the following:

1. Module Discussions (11 total) = 165 points
2. Module Quizzes (16 total) = 155 points
3. Module Dropbox (Short Answer) Assignments (13 total) = 166 points

4. Unit Exams (4 total) = 400 points
Total = 886 points

Module Discussions

There are a total of eleven discussions in the course, worth 15 points apiece. The format of these discussions will vary, from providing your thoughts about a topic/resource, to performing a role play discussion. In the role play discussion you will be assigned a role and will be asked to comment from that perspective. Some discussions will require you to reply to other students, and some may ask you to follow-up with a reflection.

Module Quizzes

You will complete 16 module quizzes, one for each module. These will consist of multiple choice, ordering, or matching questions, and will vary between 5 and 15 questions (10 to 20 points) per module. These will require you to identify: definitions of concepts, components of a topic, and the correct order of processes. You will receive feedback immediately after submission.

Module Dropbox Assignments

There are a total of 13 dropbox assignments in your course. They will consist of 3 to 10 short answer questions, with a point total varying between 10 to 25 points. You may be asked to list variables of a topic, or describe a topic in your own words.

Unit Exams

At the end of each of the four units you will take an unit encompassing exam. These will be worth 100 points. They will contain a mix of multiple choice, fill in the blank, matching, and short answer questions.

Exam Method: Online with Proctoring

This course requires all students to complete exams online with a proctoring service. Students receive one attempt on each exam.

Grading Scale

The following grading scale is used to evaluate all course requirements and determine your final grade:

A = 93–100	B = 83–87.9	C = 70–77.9	D = 60–69.9
AB = 88–92.9	BC = 78–82.9		F = Below 60

Pass/Fail Option

Students who enroll in an Independent Learning (IL) course under the pass/fail option will receive a final grade of S in place of a final grade equivalent to an A, AB, B, BC, or C and a final grade of U in place of a final grade equivalent to a D or F.