



## U200-115: Human Biology

**Course Format:** Online

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**Course credits:** 3

**Course Level:** Introductory

**Prerequisites:** None; appropriate for advanced high school and first-year or higher college students.

**Course Description:** This course will help you learn about why science, in particular biology, is important. Additional skills honed by this course, such as critical thinking and developing evaluation skills, will also benefit all aspects of your life. In this course you will investigate the chemistry of life; organization and regulation of the body systems; cardiovascular, nervous, reproductive, immune, respiratory, digestive, and lymphatic systems; infectious diseases; human evolution; ecology and human interactions with ecology; and human sustainability.

### Required Course Materials

- Textbook: [Wakim, Suzanne & Grewal, Mandeep. Human Biology.](#) OER online text is available through LibreTexts Biology

### Hardware Requirements

You will need a webcam, speakers, and a microphone. 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

- Understand relationships concerning the role of biology in society.
- Apply physiological terminology to describe pathological processes impacting human health.
- Evaluate scientific information from a variety of sources.
- Understand & apply the scientific method.
- Identify and correctly use biological terminology in reference to concepts in discussion and in forms of assessment.
- Interpret graphically presented information.



**Course Overview**

<b>MODULE/ UNIT #</b>	<b>MODULE/UNIT TOPIC</b>	<b>EVALUATED ACTIVITIES</b>
1	Exploring Life & the Scientific Method	<ul style="list-style-type: none"> <li>• Syllabus Quiz (10 pts)</li> <li>• Personal Introduction Discussion (15 pts)</li> <li>• Scientific Method Quiz (15 pts)</li> <li>• Scientific Method Discussion (15 pts)</li> <li>• Scientific Method Written Assignment (17 pts)</li> <li>• Scholarly vs popular press article assignment (25 pts)</li> </ul>
2	Chemistry, Water & pH, Macromolecules	<ul style="list-style-type: none"> <li>• Chemistry/Water/pH/macromolecules quiz (15 pts)</li> <li>• Chemistry written assignment (15 pts)</li> <li>• Macromolecules written assignment (10 pts)</li> </ul>
3	Cell Structure & Function	<ul style="list-style-type: none"> <li>• Cell structure &amp; function quiz (15 pts)</li> <li>• Cells &amp; transport written assignment (20 pts)</li> </ul>
	Unit Exam: Modules 1-3	Exam 1 (100 pts)
4	Cell Division & Cancer	<ul style="list-style-type: none"> <li>• Cell division &amp; cancer quiz (10 pts)</li> <li>• HeLa cells discussion (15 pts)</li> <li>• Cell division written assignment (22 pts)</li> </ul>
5	Genetics	<ul style="list-style-type: none"> <li>• Genetics quiz (10 pts)</li> <li>• Genetics counseling discussion (15 pts)</li> <li>• Discussion reflection (7 pts)</li> <li>• Genetics problems written assignment (22 pts)</li> </ul>
6	Human Evolution	<ul style="list-style-type: none"> <li>• Evolution quiz (10 pts)</li> <li>• Human evolution written assignment (23 pts)</li> </ul>
	Unit Exam: Modules 4-6	Exam 2 (100 pts)
7	Organization & Regulation of Body Systems	<ul style="list-style-type: none"> <li>• Tissues &amp; organization quiz (11 pts)</li> <li>• Organ donation discussion (15 pts)</li> <li>• Discussion reflection (7 pts)</li> <li>• Tissues &amp; skin color written assignment (9 pts)</li> </ul>
8	Cardiovascular System: Heart & Blood Vessels	<ul style="list-style-type: none"> <li>• Cardiovascular system quiz (8 pts)</li> <li>• Pacemakers discussion (15 pts)</li> <li>• Cardiovascular system diagrams written assignment (18 pts)</li> </ul>
9	Cardiovascular System: Blood	<ul style="list-style-type: none"> <li>• Blood quiz (6 pts)</li> <li>• Blood donation discussion (15 pts)</li> <li>• Concept map written assignment (14 pts)</li> </ul>
10	Lymphatic & Immune Systems	<ul style="list-style-type: none"> <li>• Lymphatic &amp; immune system quiz (11 pts)</li> <li>• Vaccines discussion (15 pts)</li> <li>• Discussion reflection (7 pts)</li> <li>• Immune response written assignment (11 pts)</li> </ul>



11	Infectious Diseases & Epidemiology	<ul style="list-style-type: none"> <li>• Disease &amp; epidemiology quiz (14 pts)</li> <li>• Patient zero &amp; Covid discussion (15 pts)</li> <li>• Discussion reflection (7 pts)</li> <li>• Epidemiology written assignment (15 pts)</li> </ul>
	Unit Exam: Modules 7-11	Exam 3 (100 pts)
12	Digestive System & Nutrition	<ul style="list-style-type: none"> <li>• Digestion quiz (9 pts)</li> <li>• Food insecurity discussion (15 pts)</li> <li>• Digestion written assignment (13 pts)</li> </ul>
13	Respiratory System	<ul style="list-style-type: none"> <li>• Respiratory system quiz (7 pts)</li> <li>• Written assignment (9 pts)</li> </ul>
14	Nervous System	<ul style="list-style-type: none"> <li>• Nervous system quiz (6 pts)</li> <li>• Legality of drug use discussion (15 ps)</li> <li>• Written assignment (23 pts)</li> </ul>
15	Reproductive System	<ul style="list-style-type: none"> <li>• Reproductive system quiz (13 pts)</li> <li>• Reproductive Mythbusters discussion (15 pts)</li> <li>• Written assignment (21 pts)</li> </ul>
	Unit Exam: Modules 12-15	Exam 4 (100 pts)
16	Human Population, Global Resources	<ul style="list-style-type: none"> <li>• Population &amp; resources quiz (10 pts)</li> <li>• Sustainability discussion (15 pts)</li> <li>• Written assignment (19 pts)</li> </ul>
17	Global Energy, Ecology, & Conservation	<ul style="list-style-type: none"> <li>• Ecology &amp; conservation quiz (10 pts)</li> <li>• Climate change discussion (15 pts)</li> <li>• Written assignment (8 pts)</li> </ul>
	Unit Exam: Modules 16, 17	Exam 5 (75 pts)

### Evaluation Methods

Your final grade will be based on the total number of points you earn from all of the assignments, discussions & reflections, quizzes, and exams.

- 1) Written assignments (314 points)
- 2) Discussion posts (210 points)
- 3) Discussion reflections (28 points)
- 4) Module quizzes (190 points)
- 5) Exams (475 points)

**TOTAL POINTS: 1217**

### *Written Assignments (314 points)*

Each module has a written assignment associated with it. These written assignments are meant to help you engage with the content of the module and direct your studying

### *Discussion Posts (210 points)*

There are a total of 14 discussions in this course. The first discussion is a personal introduction of yourself and is meant to be an example of how to approach the 13 module discussions. Most of the discussions require you to write your own post and then respond to two other discussion posts. The module discussions focus on specific topics connected to the content of that module.

### *Discussion Reflections (28 pts)*

Four of the modular discussions (Modules 5, 7, 10, 11) have a separate written reflection worth 7 points. Specific instructions for completing each reflection are provided in that assignment posted in the corresponding module.

### *Module Quizzes (190 points)*

Each module has a Canvas quiz associated with it that covers the content from the online textbook and the page in each module titled “Learning Resources and Study Videos”. The questions in these quizzes will be similar to the questions you will encounter on the exams, in terms of question type and depth of coverage.

### *Exams (475 points)*

There are five exams for this course. Because the last exam covers only two modules, this exam is 75 points. Exams 1-4 are each worth 100 points and cover between three to five modules.

### **Exam Method: Online with Proctoring**

This course requires all students to complete exams online with a proctoring service. Students have one attempt on each exam and a 2-hour time limit in which to complete the exam. Each exam will be proctored via Proctorio. You can find specific information regarding Proctorio and how exam proctoring works in the “Start Here: Course Introduction” module in the Canvas course.

### **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.



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