

## U200-182: Introduction to Human Anatomy and Physiology

**Course Format:** Online

**Course Author/s:** M. Susan DeVries, PhD

**Course credits:** 3

**Pre/Corequisites:** Advanced placement biology and chemistry classes or college level biology and chemistry.

**Course Description:** This course is a study of the structure and function of the human body at the level of organs and systems. This course gives an introductory overview of the following topics: Integumentary System, Skeletal System, Muscular System, Nervous System, The Special Senses, Endocrinology, Circulatory System, Cardiac System, Respiration, Digestion, Urinary System, and Reproductive Systems.

### Required Course Materials

- Jenkins, G. and G. Tortora. (2012). *Anatomy and Physiology, From Science to Life, 3<sup>rd</sup> Edition*. Wiley Publishing.

### Course Learning Objectives

At the end of this , you should be able to:

- **[LO1]** Identify major components of each organ system.
- **[LO2]** Describe the functions of each organ system.
- **[LO3]** Explain the interrelationships of organ systems.
- **[LO4]** Apply the basic principles of anatomy and physiology to human health conditions.

### Course Overview

MODULE/UNIT #	MODULE/UNIT TOPIC	EVALUATED ACTIVITIES
1	Introduction to the Human Body	<ul style="list-style-type: none"> <li>• Study Guide for Completion: <b>5 points</b></li> <li>• Module Assignment, Identifying Body Cavities: <b>10 points</b></li> <li>• Module Quiz: <b>10 points</b></li> </ul>
2	Levels of Organization	<ul style="list-style-type: none"> <li>• Study Guide for Completion: <b>5 points</b></li> <li>• Module Assignment, Identifying Tissues: <b>12 points</b></li> </ul>

		<ul style="list-style-type: none"> <li>• Module Quiz: 10 points</li> </ul>
3	Integumentary System	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Mini-Research Paper on Skin Color Adaptation: 25 points</li> <li>• Module Quiz: 10 points</li> </ul>
4	Skeletal System	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Identify the Bones: 15 points</li> <li>• Module Quiz: 10 points</li> </ul>
5	Articulations	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Discussion Post on Common Injuries of Body Joints: 10 points</li> <li>• Module Quiz: 10 points</li> </ul>
6	Muscular System	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Muscle Fatigue Exercise: 10 points</li> <li>• Module Quiz: 10 points</li> </ul>
7	Nervous System	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Mini-research paper on the Causes of Neurodegenerative Disorders: 25 points</li> <li>• Module Quiz: 10 points</li> </ul>
8	Special Senses	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Discussion Post on Treatment of Common Sensory Impairments: 10 points</li> <li>• Module Quiz: 10 points</li> </ul>
9	Endocrine System	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment #1, 'Virtual' Rat Lab Exercise; 15 points</li> <li>• Module Assignment #2, Discussion Post on Popular Hormones in the Media: 10 points</li> <li>• Module Quiz: 10 points</li> </ul>
10	Blood and Blood Vessels	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Blood Vessel Maps: 15 points</li> <li>• Module Quiz: 10 points</li> </ul>

11	Heart	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment #1, Heart Physiology Activity: 10 points</li> <li>• Module Assignment #2, Discussion Post on Cardiac Pathology: 10 points</li> <li>• Module Quiz: 10 points</li> </ul>
12	Respiratory System	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Mini-Research Paper on The Damages of Smoking and Vaping: 25 points</li> <li>• Module Quiz: 10 points</li> </ul>
13	Digestive System	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Mapping the Digestive Pathway: 10 points</li> <li>• Module Quiz: 10 points</li> </ul>
14	Urinary System	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Visual Urinalysis: 10 points</li> <li>• Module Quiz: 10 points</li> </ul>
15	Reproductive Systems	<ul style="list-style-type: none"> <li>• Study Guide for Completion: 5 points</li> <li>• Module Assignment, Mini-Research Paper on Contraception Comparisons, 25 points</li> <li>• Module Quiz: 10 points</li> </ul>

### Evaluation Methods

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

- 1) Exams (250 points = 33%)
- 2) Module Assignments (167 points = 22%)
- 3) Module Quizzes (150 points = 20%)
- 4) Research Papers (100 points = 15%)
- 5) Study Guide Completion (75 points = 10%)

#### *Exams (250 points = 33%)*

Exam are given following every 3 modules of this course and will cumulatively account for 33% of your final course grade:

Insert brief description. Example: Reading comprehension questions are assigned in each unit of this course and will cumulatively account for 30% of your final course grade.

*Module Assignments (167 points = 22%)*

Each module will have one or more assignments. These will cumulatively account for 22% of your final course grade.

*Module Quizzes (150 points = 20%)*

Each module will conclude with a comprehensive quiz for the information in that module. These will cumulatively account for 20% of your final course grade.

*Research Papers (100 points = 15%)*

Four mini-research papers are assigned throughout this course. They cumulatively account for 15% of your final course grade.

*Study Guide Completion (75 points = 10%)*

Study guides are provided with each module to help you work your way through the material. These cumulatively account for 10% of your final course grade.

### 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.