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# Anatomy and Physiology, Part 1 (BIOL-049)

## Anatomy and Physiology Syllabus

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### Course Description

Anatomy and Physiology is a subject that stands out for its significance and potential impact on future careers and understanding of the human body. This course explores the human body's structure and function, providing an understanding of how our bodies are formed and how they work. Beyond just being a fascinating academic field, anatomy and physiology play a pivotal role in various professions, including medicine, nursing, physical therapy, and more.

### Prerequisites

There are no prerequisites for this course.

This course is the first semester of a two-semester course. It is recommended, but not required, that students take Anatomy and Physiology, Part 2 after taking this course.

### Course Materials

All of the materials students need are included in the course. Students do not need to buy any additional textbooks.

### Course Policies

For information about resubmitting assignments, retaking exams, how long students are given to complete the course, and other questions, please contact the AK Grad instructor.

### Course Outcomes

As students complete the course assignments, they will increase their knowledge, improve a 21st-century skill, and develop an attribute.



## Knowledge: Anatomy and Physiology

In this course, *knowledge* refers to the subject matter and content students will learn while completing the readings, practices, quizzes, and assignments.

On successful completion of this course, students will be able to do the following:

1. Explore and describe the body's plan, organization, and homeostasis.
2. Explain the basic principles of body chemistry.
3. Describe the basic structures and functions of cells and tissues.
4. Explore the structure, function, and interactions of tissues, organs, and organ systems found in humans.
5. Describe the structures and functions of the skeletal and muscular systems and their components.
6. Construct explanations of how the integumentary, skeletal, and muscular systems make support, protection, and movement possible.
7. Develop and use models to illustrate anatomical structures and regions of the human body.
8. Defend a position on a current medical ethics dilemma.
9. Explore careers in healthcare.



## 21st-Century Skill: Communication—Deliver Presentations

As students complete this course's assignments, they will gain skills in *Deliver Presentations*. This skill is part of Communication.



## Attribute: Diligence

This course focuses on developing the attribute of *diligence* in the context of Anatomy and Physiology.

## Grading and Assignments

The letter grade in this course will be based on these assignments and exams.

### *Assignments and Exams*

Assignment or Exam	Grading	Percent of Total Grade
Assignments	Teacher-Graded	40%

<b>Assignment or Exam</b>	<b>Grading</b>	<b>Percent of Total Grade</b>
Content Guides	Teacher-Graded	20%
Module Quizzes	Computer-Graded	15%
Midcourse Quiz	Computer-Graded	10%
Final Exam	Computer-Graded	15%

## **Content Guides**

The content guides require students to take notes on specific ideas throughout the lessons. These guides will also have questions to prompt reflection and application for diligence. These guides should be downloaded and kept on the student's computer so they can be filled in and then submitted at the end of each unit. Submissions will be at the end of modules 3, 8, 11, and 15.

## **Assignments**

There will be eleven assignments in addition to the content guides. These assignments will be teacher-graded, and provide an opportunity to explore and demonstrate understanding of the course material. Students will also be able to practice the criteria for the twenty-first-century skill.

## **Module Quizzes**

Each module will contain a computer-graded quiz at the end. You may use the content guides as a resource for the module quizzes. This will be an opportunity to see what you learn and remember, and to prepare for the midcourse quiz and final exam.

## **Midcourse Quiz**

This computer-graded quiz will cover the material up to the midcourse quiz. The questions on the midcourse quiz will be similar in format to the questions on the final exam.

## **Final Exam**

The final exam will cover material from the entire course.

## Course Grade

The letter grade will be calculated according to these percentages.

### *Percent to Letter Grade Calculation*

<b>Letter Grade</b>	<b>Percent</b>
A	100%–93%
A–	<93%–90%
B+	<90%–87%
B	<87%–83%
B–	<83%–80%
C+	<80%–77%
C	<77%–73%
C–	<73%–70%
D+	<70%–67%
D	<67%–63%
D–	<63%–60%
F (fail)	<60%–0%

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