



# Sophia Learning

## HUMBIO1001: Human Biology (3 semester credits)

### COURSE DESCRIPTION

Students in the Human Biology course will analyze fundamental biological principles related to the human body. Course topics include the molecular and cellular basis of life, genetics, organ systems, and the impact of nutrition and exercise on human health.

**COURSE EFFECTIVE DATES:** March 2019 - Present

**PREREQUISITES:** Entry level Gen Ed course – no prerequisites

**LENGTH OF COURSE:** This is a self-paced course. Students may use as much or as little time as needed to complete the course.

**ACE CREDIT® RECOMMENDATION:** In the lower-division baccalaureate/associate degree category, 3 semester hours in biology (2/19).

**GRADING:** This is a pass/fail course. Students are required to complete all 19 formative and 6 summative assessments with an overall course average of 70% or better.

### LEARNING OUTCOMES

Upon completion of the course, the student will be able to:

1. Describe basic human biology concepts.
2. Describe skeletal and muscular systems.
3. Articulate nervous system and sensory system related to human health.
4. Analyze respiratory, circulatory, immune and digestive systems.
5. Describe urinary, endocrine, and reproductive systems.
6. Describe genetics and biotechnology and their application.

### OUTLINE OF MAJOR CONTENT AREAS

- Science Basics
- Cells
- Macromolecules
- Metabolism
- The Skeletal System
- Skeletal Muscles
- Neurons
- The Nervous System
- Sensory Systems
- The Respiratory System
- The Circulatory System
- Blood
- The Immune System
- The Endocrine System
- The Reproductive System
- Prenatal Development
- The Digestive System
- The Urinary System
- Genetics and DNA
- Genes and Inheritance

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