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AOHS Foundations of Anatomy and Physiology II
Course Scope and Sequence

Foundations of Anatomy and Physiology II is the second in a set of two semester-long lab courses that introduce students to basic anatomy and physiology. It builds on the knowledge and skills students developed during the first semester as it teaches students about the following body systems: cardiovascular, respiratory, lymphatic system and immunity, digestive, urinary, and reproductive. This course uses a wide range of assessment products in addition to quizzes and exams to evaluate students' mastery of the material.

The course project requires students to build models and conduct demonstrations that illustrate an anatomical or physiological function of the human body that they learned about in A&P I and II. The driving question is, "How can we model or demonstrate a function in human anatomy and physiology?" In small groups, students research the function they chose and use every day, inexpensive materials to build their models. They also create a trifold display board with text and visuals that describe the anatomy involved in the function, how their model shows the function, and one of several other topics related to the function. Students show their work at an A&P Exploratorium that is attended by invited guests.

KEY LEARNING OBJECTIVES FOR THE COURSE

List the 16 key objectives

Unit Name	Unit #	Lesson #	Learning Objective	Description
The Cardiovascular System	14	14	1	Describe the components of blood, the determinants of blood types, and the compatibilities of the different blood types
	14	14	3	Identify the major arteries and veins
	14	14	5	Identify and describe the structures of the heart

The Respiratory System	15	15	1	Identify and describe the structures of the respiratory system
	15	15	3	Explain the process of gas exchange and respiration
	15	15	5	Explain how common disorders of the respiratory system affect normal function
The Immune System	16	16	1	Describe the body's defenses that make up nonspecific and specific immunity
	16	16	5	Explain how diseases and disorders of the immune system, including AIDS and autoimmunity, affect normal function
The Digestive System	18	18	1	Identify the parts of the digestive system
	18	18	3	Describe the process of digestion
	18	18	4	Describe the roles and metabolism of major nutrients
The Urinary System	19	19	1	Identify the organs and structures of the urinary system
	19	19	2	Explain the functions of the organs and structures of the urinary system
	19	19	3	Summarize the three main renal processes of filtration, reabsorption, and secretion
The Reproductive System	20	20	2	Explain the functions of the organs and structures of the human reproductive system
	20	20	4	Describe the process of fertilization, including the roles of cells and chromosomes

Overview of Course Project

Project Description

In this project, students use models and demonstrations to illustrate an anatomical or physiological function of the human body that they learned about in A&P I and II. The driving question for the project is: "How can we model or demonstrate a function in human anatomy and physiology?"

The students work cooperatively in pairs or triads. Each group chooses a function to research and build a model of using inexpensive, common materials. They also create a trifold display board about their model and the function it illustrates. Students present their work at an A&P Exploratorium for their classmates and invited guests.

Project Components

Over the course of this project, students produce the following:

The model or demonstration of an anatomical or physiological function

A trifold poster with text and graphics explaining the function, how the model illustrates the function, and related topics

Assessment

There are two main assessments for the project:

- The model or demonstration is assessed using a rubric.
- The trifold poster is assessed using a rubric