

**BIOL 109 Anatomy and Physiology for Allied Health**

**Credit Hours:** 4

**Scheduled hours per week**

Lecture: 3

Lab: 2

Other: 0

**Catalog Course Description:** This class is a survey class in human anatomy and physiology for those students entering the Allied Health areas. The course is for students in Surgical Technology, Pharmacy Technology, and Paramedic Sciences. The course will have special emphasis on problems requiring surgery, emergency treatments, and drug interventions. Prevention of disease is discussed and the pathology associated with normal aging and common problems for each system. All systems of the body will be discussed.

**Pre-requisites:** None

**Co-requisites:** None

**Course Learning Outcomes:**

- Identify normal anatomy and physiology of the body.
- Describe disease processes for the body’s systems.
- Describe some clinical situations, especially as related to surgery.

**Topics to be studied:**

- Anatomical terms and levels of organization of the body
- Chemistry of cells and bio-chemicals in the body
- Tissues and the infectious process
- All systems of the body-integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive
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**Relationship of Course to Program or Discipline Learning Outcomes:**

<b>Relationship of Course to Science Learning Outcomes:</b>	
Students will learn the process and reasoning behind the Scientific Method and be able to conduct experiments that meet the requirements of the model.	
Students exhibit the basic safety-related rules and regulations of working in the lab.	X
Students be able to recount the basic safety tenants associated with a specific scientific discipline.	X
Students will become proficient at Science Writing.	
Students will recognize and identify the applications of their specific discipline in the ‘real world.’	X
Students will accurately recount important milestones in the history of scientific inquiry in their discipline.	
5/3/2016	

<b>Relationship of Course to General Education Learning Outcomes:</b>	
<b>Composition and Rhetoric</b> Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	
<b>Science &amp; Technology</b> Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	X
<b>Mathematics &amp; Quantitative Skills</b> Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	
<b>Society, Diversity, &amp; Connections</b> Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	
<b>Human Inquiry &amp; the Past</b> Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.	
<b>The Arts &amp; Creativity</b> Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.	
<b>5/3/2016</b>	

**Special requirements of the course:**

None

**Additional information:**

None

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**Date:** 10/20/2017