

## COURSE OUTLINE

Revision: Carey Schroyer, April 2008

DEPARTMENT:	Academic Programs
CURRICULUM:	The Natural World
COURSE TITLE:	Human Anatomy and Physiology I
COURSE NUMBER:	BIOL& 241
TYPE OF COURSE:	Academic Transfer
Special Requirement Met:	None
AREA(S) OF KNOWLEDGE:	The Living World
COURSE LENGTH:	1 quarter
CREDIT HOURS:	5
LECTURE HOURS:	33
LAB HOURS:	44
CLASS SIZE:	27
PREREQUISITES:	CHE 101 or Instructor's permission

## COURSE DESCRIPTION:

BIOL& 241 is the initial course in the two course series. Lecture and lab exercises cover fundamental principles and establish a basis for advanced study of anatomy and physiology and clinically related subjects in the paramedical fields. This course is intended for students wishing to go into health science related fields. This course is intended for students wishing to go into health science related fields and into professional research programs. Lab included.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Read and listen actively to learn and communicate.
2. Human Relations - Use social interactive skills to work in groups. Learn to work in teams with others to achieve goals in health fields.
3. Critical Thinking and Problem Solving - Think critically in evaluating information, solving problems and making decisions.
4. Personal Responsibility - Be motivated and able to continue learning and adapt to change. Be aware of environmental issues.
5. Information Literacy - Access and evaluate information from a variety of sources and contexts, including technology.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Define and explain the principles of Anatomy, Physiology and Pathology in relation to the human body and the individual subjects, listed below.
2. Define homeostasis, its importance to the human body, and the mechanisms used to maintain this process.
3. Be able to explain the different stratification and the role of the integument especially in regard to maintaining homeostasis.
4. Be able to define the components of the skeletal and muscular systems of the human body and explain their inter-relationships providing support and movement for the body.
5. Be able to identify the components of the nervous system and special senses and the role the sense organs play not only in the interpretation of the environmental changes but also in producing cognition, emotion, and ultimately behavior.
6. Be able to illustrate how all the body systems integrate and form a functioning organism as well as potential consequences and diseases resulting from non integration and/or breakdown of any of the above body systems.
7. Appropriately use the compound light microscopes, utilize the basic principles of dissection, and utilize technologically based physiology labs and wet labs.
8. Be able to utilize this knowledge towards completion of a career in an allied health science field such as dental hygiene, nursing, radiological technician, occupational therapy, or any similar program.

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TOPICAL OUTLINE:		APPROX. HOURS
I.	Terminology	5
II.	Tissues	15
III.	Skin	5
IV.	Skeleton	15
V.	Muscles	15
VI.	Nervous System	15
VII.	Special Senses	7
	Total hours	77

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DATE: May 2008

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SLO #	Included in Course Objective Number	SSCC Student Learning Outcomes
SLO 1.1	1,2,3,4,5	Communication - Read and listen actively
SLO 1.2	1,2,3,4,5	Communication - Speak and write effectively
SLO 2.1		Computation - Use mathematical operations
SLO 2.2		Computation - Apply quantitative skills
SLO 2.3		Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills
SLO 3.1	7,8	Human Relations - Use social interactive skills to work in groups effectively
SLO 3.2		Human Relations - Recognize the diversity of cultural influences and values
SLO 4.1	1,2,3,4,5,6	Critical Thinking and Problem Solving -
SLO 5.1		Technology - Select and use appropriate technological tools
SLO 6.1	1,2,3,4,5,6,7,8	Personal Responsibility - Be motivated and able to continue learning and adapt to change
SLO 6.2		Personal Responsibility - Value one's own skills, abilities, ideas and art
SLO 6.3		Personal Responsibility - Take pride in one's work
SLO 6.4		Personal Responsibility - Manage personal health and safety
SLO 6.5	8	Personal Responsibility - Be aware of civic and environmental issues
SLO 7.1	8	Information Literacy - Access and evaluate information
SLO 7.2	8	Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society

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