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.
April 2008

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

REVISED BY: Carey Schroyer
DATE: May 2008

BIOL& 241

BIOL& 241 Human Anatomy and Physiology I
<table>
<thead>
<tr>
<th>SLO #</th>
<th>Included in Course Objective Number</th>
<th>SCC Student Learning Outcomes</th>
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</thead>
<tbody>
<tr>
<td>SLO 1.1</td>
<td>1,2,3,4,5</td>
<td>Communication - Read and listen actively</td>
</tr>
<tr>
<td>SLO 1.2</td>
<td>1,2,3,4,5</td>
<td>Communication - Speak and write effectively</td>
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<tr>
<td>SLO 2.1</td>
<td></td>
<td>Computation - Use mathematical operations</td>
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<tr>
<td>SLO 2.2</td>
<td></td>
<td>Computation - Apply quantitative skills</td>
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<tr>
<td>SLO 2.3</td>
<td></td>
<td>Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills</td>
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<tr>
<td>SLO 3.1</td>
<td>7,8</td>
<td>Human Relations - Use social interactive skills to work in groups effectively</td>
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<tr>
<td>SLO 3.2</td>
<td></td>
<td>Human Relations - Recognize the diversity of cultural influences and values</td>
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<tr>
<td>SLO 4.1</td>
<td>1,2,3,4,5,6</td>
<td>Critical Thinking and Problem Solving -</td>
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<tr>
<td>SLO 5.1</td>
<td></td>
<td>Technology - Select and use appropriate technological tools</td>
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<tr>
<td>SLO 6.1</td>
<td>1,2,3,4,5,6,7,8</td>
<td>Personal Responsibility - Be motivated and able to continue learning and adapt to change</td>
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<tr>
<td>SLO 6.2</td>
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<td>Personal Responsibility - Value one's own skills, abilities, ideas and art</td>
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<tr>
<td>SLO 6.3</td>
<td></td>
<td>Personal Responsibility - Take pride in one's work</td>
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<tr>
<td>SLO 6.4</td>
<td></td>
<td>Personal Responsibility - Manage personal health and safety</td>
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<tr>
<td>SLO 6.5</td>
<td>8</td>
<td>Personal Responsibility - Be aware of civic and environmental issues</td>
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<tr>
<td>SLO 7.1</td>
<td>8</td>
<td>Information Literacy - Access and evaluate information</td>
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<tr>
<td>SLO 7.2</td>
<td>8</td>
<td>Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society</td>
</tr>
</tbody>
</table>

PREPARED BY: Carey Schroyer
DATE: April 2008