

# Anoka-Ramsey Community College

## BIOL 2114: Human Anatomy and Physiology II

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 3

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite

BIOL 2113 - Human Anatomy and Physiology I (Minimum grade: 2.0 GPA Equivalent)

Corequisites: None

MnTC Goals: Goal 03 - Natural Science

(MnTC Goal 3)

Prerequisite: BIOL 2113 with a grade of C or better

This course is an intensive, detailed study of body structure and function utilizing principles of chemistry, biochemistry, anatomy and physiology. Includes the following topics: cardiovascular system, lymphatic system, nonspecific defense and immunity, respiratory system, digestive system, urinary system, fluid/electrolyte and acid/base balance, and reproductive system. Laboratory work will include limited animal dissection.

**B. COURSE EFFECTIVE DATES:** 06/01/1998 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Circulatory System
2. Lymphatic System
3. Immune System
4. Respiratory System
5. Digestive System
6. Urinary System
7. Fluid-electrolyte and Acid-Base Balance
8. Reproductive System

#### **D. LEARNING OUTCOMES (General)**

1. Define and describe terms used in chemistry and cell biology as they relate to anatomy and physiology
2. Explain biological concepts using appropriate anatomical and physiological terminology
3. Demonstrate the ability to synthesize, analyze, compare and contrast information regarding the human body
4. Demonstrate the ability to solve problems in anatomy and physiology based on an accumulation of past and present learning
5. Explain cellular and systemic physiological processes
6. Demonstrate an understanding of physiological processes occurring in the body and their relationship to homeostasis
7. Demonstrate an understanding of the interrelationships between body structures and functions and identify how they fit together
8. Demonstrate the ability to access resources to gather information about the human body
9. Demonstrate an understanding of major areas of course content

#### **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

Goal 03 - Natural Science

1. Demonstrate understanding of scientific theories.
2. Formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines. One of these experimental components should develop, in greater depth, students' laboratory experience in the collection of data, its statistical and graphical analysis, and an appreciation of its sources of error and uncertainty.
3. Communicate their experimental findings, analyses, and interpretations both orally and in writing.

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted