North Hennepin Community College

BIOL 2112: Human Anatomy and Physiology II

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 1.5

OJT Hours/Week: *.*

Prerequisites:
This course requires the following prerequisite
BIOL 2111 - Human Anatomy and Physiology I (Minimum grade: 1.67 GPA Equivalent)

Corequisites: NURS 2700

MnTC Goals: Goal 03 - Natural Science

This course is the second course of a two-course sequence. This course offers students a comprehensive study of the structure and function of the human body in a classroom and laboratory setting. Topics include the anatomy and physiology of the following organ systems: circulatory, non-specific and specific defenses, respiratory, digestive, urinary, reproductive and early development. Strongly recommend college level reading abilities, a working knowledge of elementary algebra and a medical terminology course. Utilization of preserved specimens in the laboratory is a required part of the course.
(3 hours lecture, 3 hours lab)
Prerequisite: Biol 2111 with a grade of "C" or better.

B. COURSE EFFECTIVE DATES: 08/25/1997 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Topics include circulatory system, non-specific and specific defenses, digestive system, urinary system, male and female reproductive systems and early development. Academic content and standards follows the Human Anatomy and Physiology Society (HAPS) curriculum guidelines.

D. LEARNING OUTCOMES (General)

1. Demonstrate knowledge of anatomy and physiology core concepts. (MnTC G2, comps. A; MnTc G3, comp a; ELOs 1, 2, 4)
2. Discuss the significance of the interrelationships of body organ systems. (MnTC G2, comp. c, MnTC G3, comps. a, b; ELOs 1, 2, 3)
3. Explain how homeostatic mechanisms apply to body functions. (MnTC G2, comp. c, MnTC G3, comps. a, b; ELOs 1, 2, 3)
4. Apply concepts of structure and function as they relate to the principle of complementarity. (MnTC G2, comp. c, MnTC G3, comps. a, b; ELOs 1, 2, 3)
5. Communicate experimental findings, analyses, and interpretations formally and informally. (MnTC G2, comp. a, b, c; MnTC G3, comps. a, b, c; ELOs 1, 2)

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

1. Knowledge of Human Cultures and the Physical and Natural World --Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.

2. Intellectual and Practical Skills - Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy ; Information literacy ; Teamwork and problem solving.

3. Personal and Social Responsibility and Engagement - Including: Civic knowledge and involvement - campus, local and global; Intercultural knowledge and competence; Ethical reasoning and action; Foundations and skills for lifelong learning.

4. Integrative and Applied Learning - Including: Synthesis and advanced accomplishment across general education, liberal studies, specialized studies and activities in the broader campus community