

Anoka-Ramsey Community College

BIOL 1104: The Human Body - Structure and Function

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: Goal 03 - Natural Science

(MnTC Goal 3)

Recommended Skills, Abilities, or Coursework: MATH 0240 with a grade of C or better, or the appropriate score on math placement test. Ability to do college level reading and writing as demonstrated by meeting enrollment requirements for ENGL 1121.

This is an introductory survey of how the human body is constructed and how it operates. Areas of study include: human organization, support and movement, integration and coordination, maintenance of the body, body defenses, reproduction and development. Includes a human anatomy and physiology based lab-like experience.

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Anatomy and physiology of each body system
2. Interrelationship between body components
3. How structure relates to function
4. Assessment, analysis, comparison and contrast of information regarding the human body
5. Homeostasis and how it relates to functions of the body
6. Assessment of resources to gather, assess, and analyze information about the human body

D. LEARNING OUTCOMES (General)

1. Discuss how the human body is organized including support and movement, integration and coordination, body maintenance, body defenses and reproduction and development
2. Explain how to use hypothesis-testing to develop an understanding of scientific theories involving various systems of the human body
3. Analyze physiological data and report on experimental findings
4. Illustrate an understanding of the societal issues involving the human body
5. 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.
4. Evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted