

Inver Hills Community College

BIOL 2202: Human Anatomy & 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 2201 - Human Anatomy and Physiology I (Minimum grade: 1.67 GPA Equivalent)

Corequisites: None

MnTC Goals: Goal 02 - Critical Thinking, Goal 03 - Natural Science

Covers anatomy and physiology of the human body with special emphasis on the relationship between structure and function and homeostatic mechanisms of the body. Systems and topics covered include cardiovascular system, lymphatic and immune systems, respiratory system, digestive system, urinary system, acid-base and electrolyte balance, reproductive systems, and development. The lab component will include hands-on experience with models, histology slides and one or more representative animal specimens. This course meets Human Anatomy and Physiology Society learning outcomes and aligns with content for common healthcare admissions exams.

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Cardiovascular System: 20%
2. Development: 7%
3. Digestive System: 13%
4. Immune System: 10%
5. Lymphatic System: 7%
6. Reproductive System: 10%
7. Respiratory System: 13%
8. Urinary System: 13%
9. Water, electrolytes balance: 7%

D. LEARNING OUTCOMES (General)

1. 1.) Demonstrate understanding of the interrelationship of chemistry, cells, tissues, organs, and systems of the human body.
- 2.) Describe the relationship between anatomical structure and physiological function.
- 3.) Demonstrate understanding of physiological processes, their integration and its relationship to homeostasis.
- 4.) Communicate biological principles using appropriate anatomical and physiological terminology.
2. 5.) Perform physiological experiments, including data collection, and communicate results and analysis.
- 6.) Demonstration of proficiency with basic standard anatomy and physiology lab practices, including competence examining histological specimens with microscopes, and proper specimen handling and dissection techniques.
- 7.) Read, interpret, incorporate, and cite information and ideas from primary literature into presentation or report on relevant anatomy/physiology topic.
- 8.) Demonstrate current standard lab safety practices and procedures.

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

Goal 02 - Critical Thinking

1. Gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.
2. Imagine and seek out a variety of possible goals, assumptions, interpretations, or perspectives which can give alternative meanings or solutions to given situations or problems.
3. Analyze the logical connections among the facts, goals, and implicit assumptions relevant to a problem or claim; generate and evaluate implications that follow from them.
4. Recognize and articulate the value assumptions which underlie and affect decisions, interpretations, analyses, and evaluations made by ourselves and others.

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