

Dakota County Technical College

BIOL 1310: Introduction to Anatomy and Physiology

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 1

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: Goal 03 - Natural Science

This lecture and laboratory-based course is designed for introductory study of human organ systems (integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, digestive, and urogenital) by structure and function. Cellular function, human reproduction, development, and heredity are other topics integrated into the biology of the human body. Carefully check your program requirements for acceptability of this course. It does not replace the two course sequence of anatomy and physiology required for many advanced health programs.

Meets MnTC Goal 3

B. COURSE EFFECTIVE DATES: 08/23/2010 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. increase and improve understanding of how science operates
2. increase and improve understanding of how to interpret scientific research and findings
3. formulate hypotheses based on understanding of existing scientific theories
4. design lab experiment elucidating physiological concepts
5. acquire laboratory techniques and skills through practical experience
6. communicate findings in several lab assignments
7. increase knowledge of the principles of anatomy and physiology
8. develop an appreciation and knowledge of nature and the role of anatomy and physiology in human health
9. improve reading, listening, writing, and speaking skills
10. improve group work skills

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