A. Course Description

Credits: 4

Prerequisites: MATH 098 Introduction to Mathematical Thinking
OR
MATH 102 Mathematics of Sustainability
OR
MATH 110 Math for Liberal Arts

Lab Hours/ Weeks:
Corequisites: None

Lecture Hours/ Week :

MnTC Goals: Goal 03 - Natural Science

This course is an introduction to the genetics, anatomy, physiology, and evolution of the human body in both health and disease. Lab included. Intended for general education students, students preparing for BIOL 111 General Biology and students needing a one-semester introduction to human biology.


C. Outline of Major Content Areas:
See Course Description for major content areas.

D. Learning Outcomes (General)

1. Communicate their experimental findings, analyses, and interpretations both orally and in writing.
2. Demonstrate mastery of the biology concepts and vocabulary necessary for success in a general biology course for biology majors and in programs that require a one-semester introduction to human biology, and for informed citizenship.
3. Demonstrate quantitative reasoning skills and competency with arithmetic and statistics at a level appropriate for graduates of bachelors degree programs.
4. Demonstrate understanding of scientific facts and theories in biology.
5. Explain and apply knowledge of genetics, anatomy, and physiology of the human body in both health and disease, and human evolution.
6. Formulate and test hypotheses by performing laboratory experiments in biology, including the collection of data, statistical and graphical analysis of results, and an interpretation of its sources of error and uncertainty.
7. Understand and apply knowledge of measurement and use of lab equipment, and use that knowledge in the proper conduct and interpretation of laboratory investigations.

E. Learning Outcomes (MN Transfer Curriculum)

Goal 03 - Natural Science

1. 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.
2. Demonstrate understanding of scientific theories.
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.
G. Special Information

Note: First day attendance required except by instructor permission.