A. Course Description

Credits: 4

Prerequisites: CHEM 105 Survey of General, Organic, and Biochemistry
OR
CHEM 111 General Chemistry I

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: Goal 03 - Natural Science

Detailed study of the anatomy and physiology of the human body with special emphasis on the relationship between structure and function. Includes the following topics: cardiovascular system, lymphatic system, nonspecific defense and immunity, respiratory system, digestive system, urinary system, fluid/electrolyte and acid/base balance, and reproductive system. Intended for students in nursing and other allied health sciences; does not count towards Biology major requirements; is not a general education science course. Formerly HBIO 202.

B. Course Effective Dates: 05/08/2019 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Recognize and understand anatomical and physiological terminology.
2. Apply the concept of homeostasis to human physiological activity.
3. Recognize, describe and explain the structure and function of major body systems and organs including: cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive system and fluid/electrolyte and acid/base balance.
4. Understand and explain fluid/electrolyte and acid/base balance in humans.
5. Evaluate select pathological conditions as they relate to normal functioning of the above-named systems.

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.