SECTION HEADING

BIOL 1115: Human Biology

Description

Human Biology covers some of the fundamental topics in biology, emphasizing the human. Students will explore the structure and function of healthy human body systems and investigate numerous abnormalities and disease states. Additional topics will include human development, aging, human genetics, DNA technology, genetic engineering, biotechnology, and ecological interactions. This course includes a lab.

Credits

3

Prerequisite

STSK 0090 or placement by multiple measures

Corequisite

None

Topics to be Covered

1. Basic principles of biology

2. Human body systems in health and disease

3. Special topics in human biology

Learning Outcomes

1. Read how scientists' approach and solve problems in the natural sciences.

2. Explain and apply the scientific method.

3. Apply some of the fundamental principles of biology.

4. Analyze chemical and cellular events underlying processes occurring in the body.

5. Examine the basic anatomy and functions of systems within the body.

6. Determine the interactions occurring between humans and the natural world.

Credit Details

Lecture: 2

Lab: 1

OJT: 0

MnTC Goal Area(s): Goal Area 03 - Natural Sciences

Minnesota Transfer Curriculum Goal Area(s) and Competencies

Goal Area 03: Natural Sciences

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.