

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. BIOL

COURSE NUMBER:1100

NUMBER OF CREDITS: 3

Lecture: 2 Lab: 1 OJT: 0

Course Title:
Survey of Biological Sciences

Catalog Description:
Survey of Biological Sciences introduces major concepts of biology which include cell biology, patterns of inheritance, classification, evolution, and diversity of life. Special emphasis will be placed upon understanding of the science of biology and its significance to everyday life. Biology 1100 is intended for non-majors. This course includes a lab.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S) :

Goal 3: Natural Sciences: X by meeting the following competencies:

- Demonstrate understanding of scientific theories.
- 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.
- Communicate their experimental findings, analyses, and interpretations both orally and in writing.
- Evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.

Topics to be Covered
The science of life
Chemical basis of life
Organic molecules
Cells; structure and function
Cellular reproduction
Patterns of inheritance
Diversity of life

Student Learning Outcomes
Define and describe biology as the science of life
Identify the organic molecules of life and describe their importance
Diagram cell structure and explain the function of the cell and its components
Describe and identify the mechanisms of cellular reproduction
Apply and compare the patterns of inheritance
Classify the diversity of life

Is this course part of a transfer pathway: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Revised Date: 6/2021