

Minnesota State College Southeast

BIOL 1001: Introduction to the Cell

A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: 1

Lab Hours/Week: 0

OJT Hours/Week: 0

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course focuses on the levels of biological organization up to the cell. An emphasis will be placed on cell structure, metabolism, selective permeability, and molecular movement. (Prerequisite: none) (1 Credits: 1 lecture/0 lab)

B. COURSE EFFECTIVE DATES: 02/28/2020 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Levels of biological organization
2. Structure and function of cells

D. LEARNING OUTCOMES (General)

1. Identify and describe the levels of biological organization up to the cell
2. Demonstrate knowledge of cell structures and their functions
3. Describe the basic chemical processes occurring in living cells
4. Demonstrate an understanding of genetics at the cellular and organism level
5. Describe the process of molecular movement and their relation to normal cellular functions
6. Describe what is meant by selective permeability and identify biologically important molecules that are/are not permeable in the cell membrane

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted