

Bemidji State University

BIOL 4460: Stem Cells and Regenerative Medicine

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is designed as an introduction to stem cell biology and the medical applications of stem cells including in the field of regenerative medicine. Prerequisite(s): BIOL 2360.

B. COURSE EFFECTIVE DATES: 08/27/2018 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Biochemistry
2. Cell Biology
3. Regenerative Medicine
4. Stem Cell Biology

D. LEARNING OUTCOMES (General)

1. formulate the rolls of tissue-specific stem cells and the mechanisms that regulate their functions.
2. explain how stem cells are derived for scientific research and evaluate different applications.
3. summarize common uses of stem cells and propose potential clinical use(s) of stem cells in regenerative medicine.
4. explain the properties that define different stem cell populations.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted