

Bemidji State University

BIOL 3075: Cellular Techniques

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is the one of two options for completion of techniques core requirement for the BCMB major and for specific Biology majors. Includes an introduction to cell culture, cell imaging, cell-based assays, and stem cell biology. Prerequisite(s): BIOL 3074 or BCMB 3074.

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Cell Biology
2. Cell Culture
3. Cell-based Assays
4. Stem Cell Biology

D. LEARNING OUTCOMES (General)

1. learn basic techniques in cell culture.
2. learn the basics of epifluorescence and confocal imaging.
3. learn cell-based assays related to cell proliferation, migration, stress fiber formation.
4. learn the basic techniques involved in stem cell research and regulated induction of differentiation.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted