

# Bemidji State University

## CHEM 3140: Chemical Toxicology

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Chemical principles in toxicology. Design of environmentally safer chemicals; quantitative analysis of the toxicity of various molecules. Prerequisite: CHEM 3311.

**B. COURSE EFFECTIVE DATES:** 04/20/2000 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Introduction to Toxicology & Nanomaterials
2. Environmental & Health Impacts of Nanomaterials: Overview and Challenges
3. Fate and Transport of Nanomaterials in the Environment
4. Toxicity and Health Hazards of Nanomaterials

### D. LEARNING OUTCOMES (General)

1. learn chemical principles of toxicology.
2. design a safer chemical environment.
3. conduct quantitative analysis of the toxicity of various molecules.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted