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