CHEM 4771: Physical Chemistry Laboratory I

A. COURSE DESCRIPTION
   Credits: 1
   Lecture Hours/Week: 0
   Lab Hours/Week: 0
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   Physical chemistry laboratory applications. Prerequisites: CHEM 3570; Corequisite: CHEM 4711.

B. COURSE EFFECTIVE DATES: 08/02/2010 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Binary Mixture's Phase Diagram
   2. Electorchemical Cell
   3. Partial Molar Volume
   4. Rate of Reaction
   5. Viscosity

D. LEARNING OUTCOMES (General)
   1. be able to successfully conduct each lab that is equivalent to the lecture component.
   2. be able to understand how the characteristics of hazardous wastes and the safe handling, storage and disposal of such experiments.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted