

# Bemidji State University

## CS 4627: Theory of Computation

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Explores the theoretic roots and limits of computing. Prerequisites: CS 2322 and MATH 2210.

**B. COURSE EFFECTIVE DATES:** 01/14/2013 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Formal languages
2. Models of computation
3. Priorities of regular languages
4. Context-free grammars and languages
5. Push-down automata
6. Turning machine model

### D. LEARNING OUTCOMES (General)

1. Have enhanced problem solving skills.
2. Communicate solutions to others in a meaningful way.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted