

# Minnesota State University Moorhead

## CSIS 330: Analysis and Design of Algorithms

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Apriori and aposteriori complexity analysis. Problem solving strategies: Divide and Conquer, Greedy, Dynamic Programming, Backtracking, and Branch-and-Bound. Applications to AI. Problem state spaces and search strategies. Parallel and Distributed Algorithms. Computability and Undecidability. Complexity Classes.

**B. COURSE EFFECTIVE DATES:** 06/01/1996 - 05/01/2017

### C. OUTLINE OF MAJOR CONTENT AREAS

None

### D. LEARNING OUTCOMES (General)

None

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted