

# Minnesota State University Moorhead

## CSIS 434: Modern Software Development

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite

CSIS 336 - C#.Net Programming

Corequisites: None

MnTC Goals: None

Modern software development.

**B. COURSE EFFECTIVE DATES:** 02/01/2017 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Web App Development with ASP.NET MVC (20%)
2. REST Web Services (20%)
3. App Software Development with Web API
4. Universal Windows Platform (UWP) and Windows Phone Apps (10%)
5. Cloud Computing with Microsoft Azure (10%)
6. Agile Software Development and Agile Practices (20%)
7. Agile Project Management
8. Agile Coding with Design Patterns and SOLID principles
9. Software Testing and Documentation (20%)

### D. LEARNING OUTCOMES (General)

1. Demonstrate practical skills and knowledge of agile software development.
2. Demonstrate practical skills and knowledge of cloud computing.
3. Demonstrate practical skills and knowledge of web app development.
4. Demonstrate practical skills and knowledge of web services development.
5. Demonstrate practical skills of software documentation.
6. Describe and demonstrate practical skills of software testing.
7. Describe and demonstrate practical skills of the team work based on Scrum methodology.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted