Minnesota State University Moorhead

CSIS 153: Introduction to Computers and Programming I-b

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 45

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:
This course requires the following prerequisite
    CSIS 152 - Introduction to Computers and Programming I-a

Corequisites: None

MnTC Goals: None

Continuation of the introduction to problem solving and programming techniques with a focus on application of object oriented techniques for defining and implementing data structures.

B. COURSE EFFECTIVE DATES: 01/13/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Design and implement user defined data structures.
2. Use a programming language to investigate the application of structures, including lists, stacks, queues, dictionaries, and binary search trees to problem solutions.
3. Use a programming language to investigate the behavior and implementation of classical search techniques.
4. Use programming language documentation to locate software utilities and modules appropriate for implementing a problem solution.
5. Use programming language utilities and modules from the standard library to implement a problem solutions.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted