

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

DEPT. CSCI

COURSE NUMBER: 2200

NUMBER OF CREDITS: 4

Lecture: 4 Lab: 0 OJT 0

Course Title:
Visual Basic Programming

Catalog Description:
Visual Basic Programming covers user interface applications through programming in Visual Basic. Topics covered are arithmetic statements, conditional statements, looping structures, data structures, sequential files, random files, design and graphics. Uses DDE, Dynamic Data Exchange, as a way of sharing electronic data between Windows applications and emphasizes problem solving using an OOED, Object-Oriented Event-Driven, approach.

Prerequisites or Necessary Entry Skills/Knowledge:
CSCI 1102

**FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)**

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered
Designing an application
Working with Controls
Setting properties
Applications with multiple forms
Using color, menus, data control
Sequence, selection and repetition in coding
Building an application
Creating the interface

Writing code, testing and debugging
Working with the Debug Window
Applications with drag-and-drop functionality
Sorting and arrays

### Student Learning Outcome

Employ various controls and code events to those controls.
Use sequential programming structures.
Use the repetition structure in code.
Program using decision structures.
Distinguish the difference and importance of variables and constants in a program.
Incorporate elements of all the other outcomes into one or more cohesive and comprehensive programs.

**Is this course part of a transfer pathway: Yes  No**

**\*If yes, please list the competencies below**

Revised Date: 1/18/2022