### 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
<table>
<thead>
<tr>
<th>Writing code, testing and debugging</th>
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<tr>
<td>Working with the Debug Window</td>
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<tr>
<td>Applications with drag-and-drop functionality</td>
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<td>Sorting and arrays</td>
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**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