



Course Name: Visual Basic I

Course Number: CSC* E205

Credits: 3

Catalog description: Introduces the fundamentals of programming using the BASIC language on microcomputer systems. Topics include input/output, looping, arrays, sorting, and data files, with an emphasis on problem definition, program design, coding, testing, and debugging.

Substantial lab work is required.

Prerequisite: ENG*E092

Corequisite or Parallel:

General Education Competencies Satisfied:

HCC General Education Requirement Designated Competency Attribute Code(s):

None

Additional CSCU General Education Requirements for CSCU Transfer Degree Programs:

None

Embedded Competency(ies):

None

Discipline-Specific Attribute Code(s):

COMP Computer Science Elective

Course objectives:

General Education Goals and Outcomes:

None



Course Specific Objectives:

1. Prepare programs using common VB controls: command buttons, labels and text boxes.
2. Demonstrate declaration of variables of various types and scopes.
3. Prepare programs with conditional statements and looping constructs.
4. Prepare programs, which use message/input boxes to communicate with a user.
5. Prepare a program, which performs simple file I/O.
6. Prepare a program, which uses arrays.

Course Content:

- Basics of program structure, program development cycle, and problem solving
- Basic programming tools, basic concept of IDEs, Visual Studio IDE environment, and Visual Basic execution environment
- Writing, deploying, running, testing, and debugging Visual Basic Programs
- Visual Basic controls and events
- Event handling model
- Creating, and using variables
- Basic input and output
- Visual Basic data types and converting between data types
- Expressions and operators
- Relational and logical operators
- Controlling program flow with conditions and loops
- Functions and procedures
- Arrays
- Simple file I/O

Date Course Created:

Date of Last Revision: 04/03/2017