

COURSE OUTLINE
CMSY-190
Introduction to Visual Basic.NET
3 Credits

HOWARD COMMUNITY COLLEGE

Description

Upon completion of this course, students will have acquired the skills needed to design, write, test, debug and document programs using Visual Basic.NET. Topics covered will include: using variables, selection constructs, looping, procedures and functions, array processing, simple file manipulations, and various VB controls. Must be eligible to enroll in ENGL-121 and MATH-061. (2 hours lecture, 2 hours lab)

Overall Course Objectives

Upon completion of this course, the student will be able to:

1. Demonstrate declaration of variables of various types and scopes.
2. Prepare programs using common VB controls such as buttons, text boxes, and labels.
3. Prepare programs that include If and Select Case statements.
4. Prepare programs that include Do...While, Do... Until, and For...Next loops.
5. Prepare programs using advanced VB controls such as the ListBox control and Menus.
6. Prepare programs that include programmer-defined procedures and functions.
7. Prepare programs which include the use of multiple forms and code modules.
8. Demonstrate an understanding of array processing.
9. Demonstrate an understanding of simple file I/O.
10. Demonstrate an understanding of Classes.

Major Topics

- I. Basics of VB. NET (variable declarations, expressions, etc.)
- II. Basic VB controls, their properties, and events
- III. Selection Constructs
- IV. Repetition Constructs
- V. Advanced VB controls, their properties, and events
- VI. Functions and Procedures
- VII. Multiple forms and standard modules.
- VIII. Array Processing
- IX. File I/O
- X. Classes

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include at least eight programming assignments and two tests.

Other Course Information

Meets the college definition for a Business elective.