

COURSE NUMBER: HS1900
COURSE TITLE: Visual Basic.Net I
COURSE LENGTH: Semester, One Credit
PREREQUISITE: Introduction to Programming Logic
GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

A combined lecture and lab course, Visual Basic.Net I introduces Windows programming using Microsoft's .NET framework. Students will write introductory level programs involving variables, assignment, input and output using graphical user interface (GUI), calculations, repetition and selection between alternatives using the .NET environment. **This course will articulate with some community colleges.**

METHOD OF INSTRUCTION:

This will be a lab-oriented class with students learning how to create programs with the Visual Basic programming language. Lecture/discussion will be needed when introducing new concepts. The primary focus of the class will have the students working with the Visual Basic software

ASSESSMENT:

Students will be graded on the various programs that they write, their class participations, quizzes and projects.

CRITICAL OBJECTIVES:

1. students will be able to identify the elements in the Visual Studio environment.
2. students will be able to design effective I/O screens
3. students will be able to declare, convert and calculate variables and constants of varying types.
4. students will be able to evaluate conditions and validate input.
5. students will be able to create menus, sub procedures and functions,
6. students will be able to establish an array and refer to individual elements in the array.
7. students will be able to create Windows projects to display database data.
8. students will be able to store and retrieve data in files.
9. students will be able to store and retrieve data from the database using ADO.NET.
10. students will be able to demonstrate knowledge of the basic principles of Object Oriented Programming.