

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number:** ITP 112

**Credits:** 4

**Course Title:** Visual Basic.Net

**Course Description**

Concentrates instruction in fundamentals of object-oriented programming using Visual Basic.NET and the .NET framework. Emphasizes program construction, algorithm development, coding, debugging, and documentation of graphical user interface applications. Lecture 4 hours per week.

**Course Prerequisites/Corequisites**

None

**Course Objectives**

Upon completing the course, the student will be able to:

- a. Define the concepts of program development using object-oriented techniques.
- b. Use the Visual Basic.NET programming language.
- c. Create graphical user interface applications.
- d. Apply techniques in algorithm development, coding debugging, and documentation of graphical user interface (GUI) application.

**Major Topics to be Included**

- a. Introduction to Application Development and Programming Fundamentals
- b. Visual Basic.NET controls and form design
- c. Data types
- d. Variables and constants
- e. Validation of user input
- f. Debugging techniques and exception handling
- g. Procedures, functions, and methods
- h. OOP Concepts
- i. GUI design and techniques
- j. ADO and ASP introduction

**Effective Date of Course Content Summary:** 10/16/2008