

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITP 136

Credits: 4

Course Title: C# Programming I

Course Description:

Teaches the fundamentals of object oriented programming and design using C#. Emphasizes program construction, algorithm development coding, debugging, and documentation of applications within the .NET framework. Lecture 4 hours per week.

Course Prerequisites/Corequisites

None

Course Objectives

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

- a. Articulate and apply the fundamentals of object-oriented programming and design using C#.
- b. Understand the concepts of object oriented language, encapsulation, inheritance and polymorphism.
- c. Write programs within the .Net framework using C# programming.

Major Topics to be Included

- a. Introduction to computers and Programming Languages
- b. C# language fundamentals
- c. Classes and Objects
- d. Inheritance and polymorphism
- e. Interfaces
- f. Arrays and collections
- g. Strings and regular expressions
- h. Handling Exceptions

Effective Date of Course Content Summary: October 21, 2008