

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

Course Prefix and Number: ITP 236

Credits: 4

Course Title: C# Programming II

Course Description:

Focuses instruction in advanced object-oriented techniques using C# for application development. Emphasizes database connectivity and networking using the .NET Framework and database processing using the Entity Framework. Prerequisite: ITP 136 or equivalent. Lecture 4 hours per week.

General Course Purpose:

Course for students who are interesting in advanced knowledge of C#. It is a required course in the programming specialization.

Course Prerequisites/Co-requisites:

ITP 136 or permission of the instructor

Course Objectives:

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

- a. Develop a C# application using object-oriented architecture.
- b. Use C# to develop T-SQL triggers.
- c. Use C# to build an Entity Framework layer.
- d. Use C# to build and develop Office documents.

Major Topics to be Included:

- a. Object-Oriented Programming
- b. Writing and Handling Events
- c. LINQ
- d. T-SQL
- e. Unit Testing
- f. Office Documents

Effective Date of Course Content Summary: August 1, 2011