

**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. Prerequisite: ITP 136 or equivalent. Lecture 4 hours per week.

**General Course Purpose**

Course for students who are interesting in advanced knowledge of C#. The course can be used as an elective in the IT degree-programming specialization.

**Course Prerequisites/Corequisites**

ITP 136 or equivalent

**Course Objectives**

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

1. Implement a Service Orient Architecture using Windows Communication Foundation.
2. Integrate best practices relating to bindings, security, transactions, and faults.
3. Define contract based programming.

**Major Topics to be Included**

1. SOA
2. Bindings and Protocols
3. Self-hosting
4. Transactions and Reliable Messaging
5. Fault Management Best Practices
6. Security Options
7. Extending WCF
8. Advanced Data Serialization Techniques

**Effective Date of Course Content Summary:** 9/24/2008