

**NVCC COLLEGE-WIDE COURSE CONTENT SUMMARY**  
**ITP 236 - C # PROGRAMMING II (4 CR.)**

**COURSE DESCRIPTION**

Focuses instruction in advanced object-oriented techniques using C# for application development. Course content emphasizes database connectivity and networking using the .NET Framework.

Lecture – 4 hours per week

**RECOMMENDED CO-REQUISITES OR PRE-REQUISITES**

ITP 136

**COURSE OBJECTIVES**

Upon completion of this course, the student will be able to:

**COURSE CONTENT**

- Delegates and Events.
- Building Windows applications.
- Accessing data with ADO .net
- Programming Web Applications with Web Forms
- Threads
- Streams
- Assemblies and versioning

**STUDENT LEARNING OUTCOMES**

Delegates and events

- Understanding the concept of a delegate
- Being able to describe the relationship between delegates and events.

Building Window Applications

- Be able to create simple window forms
- Understand XML documentation comments
- Understand how to deploy an application

Accessing data with ADO .net

- Understand the ADO.NET object model
- Understand the basics of relational databases and SQL
- Be able to utilize OLE DB managed providers
- Be able to work with data bound controls

Programming Web Applications with Web Forms

- Understand web forms
- Be able to create and add controls to web forms
- Understand the concept of data binding

Threads

- Be able to describe what threads are and why they are advantageous in programming
- Understand the concept of synchronization

Streams

- Understand files and directories.
- Understand how to read and write data
- Understand the basics of network I/O
- Be able to describe serialization

Assemblies and versioning

- Understand versioning in C#
- Understand the concepts of assemblies, both private and shared