

PRELIMINARY SYLLABUS

The following should be considered a tentative guide to the topics we will cover this quarter.

W e e k 1		6/27 .NET Philosophy Administrative issues OOP fundamentals Intro to C# Code examples Statements, classes, type system Out: Assignment 1
W e e k 2	7/2 Managed heap Properties Arrays Generics Iterators VS2005 Debugging, etc.	7/4 <p style="text-align: center;">JULY 4--NO CLASS!</p>
W e e k 3	7/9 Events and Delegates Graphics (GDI+) Using bitmaps More graphics Strings Due: Assignment 1 Out: Assignment 2	7/11 Object.Equals, == Interfaces Garbage collection/Finalization Parameter passing Exceptions File and Environment info
W e e k 4	7/16 Databases Tables, Relations SQL ADO.NET	7/18 More ADO.NET Accessing databases Example code Typed datasets

W e e k 5	7/23 Searching databases Dataviews Concurrency models Database updating Due: Assignment 2 Out: Assignment 3	7/25 XML XML Schemas XML support in .NET
W e e k 6	7/30 Web applications with ASP.NET WebForms The code-behind model Postbacks and round trips Web pages: maintaining state	8/1 More ASP.NET Examples Application and session state Scraping web pages
W e e k 7	8/6 Web service Comparison to browser model Return types Asynchronous calls Web services: maintaining state Due: Assignment 3 Out: Assignment 4	8/8 File I/O Streams Serialization Threading in .NET Thread synchronization The thread pool
W e e k 8	8/13 Intro to Cryptography More cryptography Cryptography in .NET	8/15 Win32/Com interoperability .NET 3.0: new features Final words Due: Assignment 4

Final Exam: Friday, August 17, 12:15 – 3:15 pm, location to be announced