

## ASP.NET Programming (INEW 1440)



**Credit:** 4 semester credit hours (3 hours lecture, 2 hours lab)

**Prerequisite/Co-requisite:** None

### Course Description

Server side web programming concepts to implement solutions for common web programming tasks. Includes Basic ASP.NET web controls, user management and authentication, state management, and development of database-driven web applications.

### Required Textbook and Materials

1. Beginning ASP.NET 4: in C# and VB by Imar Spaanjaars
  - a. ISBN number is 13: 9780470502211.
2. Visual Studio 2010 / 2012
3. Access to a Web Server

### Course Objectives

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

1. Plan and develop a site using ASP.NET.
2. Develop ASP.NET websites using n-tier design.
3. Analyze, design, and implement database models to support ASP.NET applications.

### Course Outline

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|---|--|
| A. Getting Started w/ ASP.net 4 <ol style="list-style-type: none"><li>1. Creating Your First ASP Web Site</li><li>2. Tour of the IDE</li><li>3. Customizing the IDE</li></ol> | D. Working w/ ASP.net Server Controls <ol style="list-style-type: none"><li>1. Server Controls Overview</li><li>2. Types of Controls</li><li>3. ASP.net State Engine</li></ol> |
| B. Building an ASP.net Website <ol style="list-style-type: none"><li>1. Creating Web Sites w/ VWD 2012</li><li>2. Working w/ Files</li><li>3. Working w/ Web Forms</li></ol>  | E. Programming Your ASP.net Web Pages <ol style="list-style-type: none"><li>1. Data Types &amp; Variables</li><li>2. Statements</li><li>3. Object Orientation Basics</li></ol> |
| C. Designing Your Web Pages <ol style="list-style-type: none"><li>1. CSS Intro</li><li>2. CSS In VWD</li></ol>  | F. Creating Consistent Looking Web Sites <ol style="list-style-type: none"><li>1. Master Pages</li></ol>   |

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Course Syllabus

- 2. Base Pages
- 3. Themes
- G. Navigation
  - 1. Ways to Move Around Your Site
  - 2. Navigation Controls
- H. User Controls
  - 1. User Controls Intro
  - 2. Logic to User Controls
- I. Validating User Input
  - 1. Gathering Data From the User
  - 2. Server Processing
- J. ASP.net AJAX
  - 1. Using ASP.net AJAX in Your Projects
  - 2. Web Services
  - 3. Page Methods
- K. jQuery
  - 1. Intro to jQuery
  - 2. jQuery Syntax
  - 3. Modifying the DOM w/ jQuery
- L. Introducing Databases
  - 1. Types of Databases
  - 2. Using SQL
  - 3. Retrieving and Manipulating Data
- M. Displaying & Updating Data
  - 1. Data Controls
  - 4. Remote Server
- 2. Data Source Controls
- 3. Data Bound Controls
- N. LINQ & the ADO.net Entity Framework
  - 1. Intro to LINQ
  - 2. ADO.net Intro
  - 3. LINQ Queries
- O. Working w/ Data
  - 1. Styles
  - 2. Hand-Coding Events
  - 3. Caching
- P. Security in Your ASP.net Web Site
  - 1. Intro to Security
  - 2. Login Controls
  - 3. Role Manager
- Q. Personalizing Web Sites
  - 1. Profiles
  - 2. Dealing w/ Profiles
- R. Exception Handling, Debugging, & Tracing
  - 1. Exception Handling
  - 2. Basics of Debugging
  - 3. Tools & Support
  - 4. Client-Side Scripts
- S. Deploying Your Website
  - 1. Preparing Your Web Site
  - 2. Moving Your Web Site
  - 3. IIS

**Grade Scale**

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

**Course Evaluation**

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Course Syllabus

Final grades will be calculated according to the following criteria:

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|-------------------|-----|
| 1. Daily Work     | 10% |
| 2. Home Work      | 30% |
| 3. Quizzes & Test | 30% |
| 4. Final Project  | 30% |

**Course Requirements**

1. Use structured programming techniques
2. Develop dynamic content web sites
3. Create appropriate documentation
4. Create applicable graphical user interfaces.

**Course Policies**

1. No food, drinks, or use of tobacco products in class.
2. Cellphones, MP3 players, Tablet, Laptops, Notebooks and any other electronic devices must be turned off while in class.
3. Do not bring children to class.
4. No late assignments will be accepted.
5. Tests. Students that miss a test are not allowed to make up the test. Students that miss a test will receive a grade of '0'.
6. Attendance Policy. Two absences are allowed. If a student is tardy to class or departs early three (3) times, it will be equal to one (1) absence. Each absence beyond two absences will result in a 5 point deduction from your final grade.
7. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an 'F' in the course.
8. Additional class policies as defined by the individual course instructor.

**Disabilities Statement**

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

**Course Schedule**

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<b>Week of</b>	<b>Topic</b>	<b>Reference</b>
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Course Syllabus

<b>Week of</b>	<b>Topic</b>	<b>Reference</b>
Week 1	Course introduction and policies Getting Started w/ ASP.net 4	Chapter 1
Week 2	Building an ASP.net Website Designing Your Web Pages	Chapter 2 Chapter 3
Week 3	Working w/ ASP.net Server Controls Test I Programming Your ASP.net Web Pages	Chapter 4 Chapter(s) 1 – 4 Chapter 5
Week 4	Creating Consistent Looking Web Sites Navigation	Chapter 6 Chapter 7
Week 5	User Controls Test II	Chapter 8 Chapter(s) 1 - 8
Week 6	Validating User Input	Chapter 9
Week 7	ASP.net AJAX jQuery	Chapter 10 Chapter 11
Week 8	LINQ & the ADO.net Entity Framework Test III	Chapter 12 Chapter(s) 1 – 12
Week 9	Introducing Databases	Chapter 13
Week 10	Displaying & Updating Data	Chapter 13
Week 11	Working w/ Data	Chapter 14
Week 12	Security in Your ASP.net Web Site Test IV	Chapter 15 Chapter(s) 1 – 16
Week 13	Personalizing Web Sites	Chapter 17
Week 14	Exception Handling, Debugging, & Tracing	Chapter 18
Week 15	Deploying Your Website	Chapter 19
Week 16	Final Exam Final Project Due	Chapter(s) 1 – 19

**Contact Information:**

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**Office Hours:** 10-11 a.m. MWF; 3-4 p.m. MW; 11-3 p.m. TR