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
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
A. Getting Started w/ ASP.net 4
   1. Creating Your First ASP Web Site
   2. Tour of the IDE
   3. Customizing the IDE
B. Building an ASP.net Website
   1. Creating Web Sites w/ VWD 2012
   2. Working w/ Files
   3. Working w/ Web Forms
C. Designing Your Web Pages
   1. CSS Intro
   2. CSS In VWD
D. Working w/ ASP.net Server Controls
   1. Server Controls Overview
   2. Types of Controls
   3. ASP.net State Engine
E. Programming Your ASP.net Web Pages
   1. Data Types & Variables
   2. Statements
   3. Object Orientation Basics
F. Creating Consistent Looking Web Sites
   1. Master Pages

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INEW 1440
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
INEW 1440
Course Syllabus

Final grades will be calculated according to the following criteria:

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

<table>
<thead>
<tr>
<th>Week of</th>
<th>Topic</th>
<th>Reference</th>
</tr>
</thead>
</table>

Page 3 of 4
# INEW 1440
## Course Syllabus

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

## Contact Information:

**Instructor:** Josh McNamara  
**Office:** Office 227, Technology Center  
**Telephone:** (409) 839-2914  
**E-mail:** jsmcnamara@lit.edu  
**Office Hours:** 10-11 a.m. MWF; 3-4 p.m. MW; 11-3 p.m. TR