ISDS 411: Business Applications

Instructor: Dr. Yi (Jenny) Zhang
Office Location: SGMH-4190
Office Phone: 657-278-4841
Office Hours: Monday 4:00-6:00pm or by appointment
E-mail: jzhang@fullerton.edu
Course Website: TITANium Moodle
Pre-Requisite: ISDS309, Co-Requisite: ISDS 402 (Database Management)

COURSE DESCRIPTION
The majority business applications now are web applications. This course introduces most up-to-date technologies for developing web application. Topics covered include basic web design technology such as HTML, CSS, and more advanced web development technology, such as ASP.NET, and most importantly how to interact with databases in web applications.

TEXT BOOK

COURSE OBJECTIVES
Most business applications today are web applications. This course aims to introduce basic concepts and techniques to develop web applications.

Upon successfully completing this course the student will:
- Create static web pages with HTML or XHTML, and design the interface of a web page with Cascading Style Sheet (CSS)
- Build Web site with consistent-look using master pages
- Develop a database-driven web application with existing data controls in ASP.NET
- Develop advanced data-driven web sites with ADO.NET Entity Framework
- Be able to do exception handling, debugging, and tracing pages
- Understand how to secure and personalize your web site
- Be able to deploy an ASP.NET website

ON-CAMPUS MEETINGS:
Although this is a web course, we have three mandatory meetings throughout of the semester: the first day class meeting and two exams. Details about meeting date and location can be found in the table below:
<table>
<thead>
<tr>
<th>Purpose</th>
<th>Date</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-day meeting</td>
<td>1/21</td>
<td>SGMH-2508</td>
<td>9:00 – 10:30am</td>
</tr>
<tr>
<td>Exam1</td>
<td>2/24</td>
<td>SGMH-2508</td>
<td>9:00 – 11:00am</td>
</tr>
<tr>
<td>Exam 2</td>
<td>4/6</td>
<td>SGMH-2508</td>
<td>9:00 – 11:00am</td>
</tr>
<tr>
<td>Final</td>
<td>5/11</td>
<td>SGMH-2508</td>
<td>9:00 – 11:30am</td>
</tr>
<tr>
<td>Project Presentation</td>
<td>5/18</td>
<td>SGMH-2508</td>
<td>9:00 – 11:30am</td>
</tr>
</tbody>
</table>

**CLASS FORMAT**

This class is being taught via distance learning. All course materials and interactions will be taken place through the course website. You can also review supplementary materials and examples on the book website: [http://www.wrox.com/WileyCDA/WroxTitle/productCd-0470502215.html](http://www.wrox.com/WileyCDA/WroxTitle/productCd-0470502215.html).

The primary means of communication between the instructor and students will be through discussion board on course website, email or Skype. In general I will try to respond to e-mail messages within the same day. Students are also free to schedule an appointment with me to discuss matters face-to-face. All discussions related to course content needs to be posted through course discussion forums.

Each week, the instructor will provide a guide on how to go through the provided course materials and exercises with corresponding assessment for the module.

**TECHNOLOGY REQUIREMENT**

- A desktop/laptop that is less than 5 years old with Windows OS.
- High speed Internet connection (Cable/DSL)
- A microphone for web meetings
- Updated web browsers with Quicktime plug-in

**COURSE-SPECIFIC RESOURCES:**
- Course website on TITANium
- Other online resources

**COURSE POLICIES AND PROCEDURES:**

Lectures, video demos, supplementary materials will all be posted on the course website. You will submit your assignment through the course website as well.

- **Reading:** You are required to finish the assigned reading on time based on the weekly announcement.
• **Weekly course material:** You are required to go through all the materials the instructor posts for each week in the weekly directions which could include slides, supplementary materials, demo videos, etc. Make sure to do them in the suggested order to achieve the best outcome.

• **Assignments:** After the reading and completing the sample project, complete your assignments as required in the weekly announcement, and submit it before the due date to get full credit. Late submission will get penalized (half of a point per day).

• **Discussion board:** If you have any questions regard to the reading, sample projects, or assignments, discuss it with your fellow students and instructor in the discussion forum created for the week. For assignment, you may discuss the problem you have, but do NOT post your assignment code in the discussion forum.

• **Exam:** all exams will be in a computer lab on campus.

• **Group Project:** You will do a project with a group of 4 members to demonstrate your knowledge in ASP.NET. Details of the project will be given in a separate document. Peer Evaluations will be conducted at the end of the course. Evaluations will be anonymous, though students may receive feedback based on the evaluation. Your individual project grade will be based on peer evaluation and group project score.

• **Graduate student requirement:** If you are attending this class as a graduate student, you will need to do an individual project instead of group project. Your project should also use Entity Framework for all Database programming.

• **Academic dishonesty:** Students who violate university standards of academic integrity are subject to disciplinary sanctions, which include failure in the course and suspension from the university. Since dishonesty in any form harms the individual, other students, and the university, policies on academic integrity are strictly enforced. The instructor expects that you will familiarize yourself with the academic integrity guidelines found in the current student handbook.

• **Documented special needs:** During the first week of classes, inform me of any disabilities or special needs that you have that may require special arrangements related to attending class sessions, carrying out assignments, or taking examinations. Please do not tell me the information after the midterm. I cannot change your grade. Students with disabilities need to document the disability at the Disable Students Services office in UH101.

• **Other Important Dates:** Please pay attention to the following withdraw dates:
  
  2/7: Last day to drop the class without a grade of “W” (If you feel that you are not used to the web instruction style, please make sure you drop the class before this date so you do not get any penalty).
4/22: Final deadline to withdraw from classes with a grade “W” for serious and compelling reasons (remember doing poorly in class is not a valid reason for withdrawing at this point).

EVALUATION AND GRADING SCALE:
There will be a midterm and final exam (in-class, open-book), a final project, five individual homework assignments. Points will be given for each category according to the following schema:

<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>15</td>
<td>5 assignments total, 3 points each</td>
</tr>
<tr>
<td>Weekly quizzes</td>
<td>5</td>
<td>0.5 point each</td>
</tr>
<tr>
<td>Exam 1</td>
<td>15</td>
<td>Application part is open book</td>
</tr>
<tr>
<td>Exam 2</td>
<td>20</td>
<td>Application part is open book</td>
</tr>
<tr>
<td>Exam 3</td>
<td>20</td>
<td>Application part is open book</td>
</tr>
<tr>
<td>Project</td>
<td>25</td>
<td>See details in project description</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
<td><strong>Total points</strong></td>
</tr>
</tbody>
</table>

Grading Scale:
- A: > 90 (> 95: A+)
- B: 80 - 89
- C: 70 - 79
- D: 60 - 69
- F: < 60

Note: +/- system will not be applied to this course. However, if you do extraordinary well in the class (>95 total grade), you will get a A+.

Netiquette
Netiquette is informal rules of conduct for communication on the Internet. Here are a few important netiquette guidelines.

**Remember Your Place**
A Web-based classroom is still a classroom, and comments that would be inappropriate in a regular classroom are likely to be inappropriate in a Web-based course as well. Treat your instructor and your fellow students with respect.

**Brevity Is Best**
Be as concise as possible when contributing to a discussion. Web-based courses require a lot of reading, and your points might be missed if hidden in a flood of text. If you have several points that you want to make, it might be a good idea to post them individually, in
several more focused messages, rather than as a single, lengthy, all-encompassing message.

**Stick To The Point**
Contributions to a discussion should have a clear subject header, and you need to stick to the subject. Don't waste others' time by going off on irrelevant tangents.

**Descriptive Subject Lines:**
A short, meaningful subject line is the most useful element of information when one wants to identify an email’s purpose at a glance.

**Read First, Write Later**
Comments related to the content of previous messages should be posted under them to keep related topics organized, and you should specify the person and the particular point you are following up on.

**Assessment Statement**
The main purpose of the degree program at the College of Business & Economics (College) at Cal State Fullerton is to provide you with the knowledge and skills that prepare you for a successful career in business. In order to assist us in achieving this goal, we will use a number of assessment tools to track your progress throughout the College curriculum. Please expect to participate in College assessment activities in several of your courses while at CSU, Fullerton. As you do so, you will assist us in identifying our program’s strengths and weaknesses as well as areas for potential improvement. In other words, you are making an important investment in the value of your degree.

**Emergency Preparedness**
In the event of an emergency, please familiarize yourself with the following guidelines and protocols: [http://emergencypreparedness.fullerton.edu/](http://emergencypreparedness.fullerton.edu/).
## COURSE SCHEDULE

Below is the tentative course schedule for the semester. I reserve the right to make any necessary changes to the schedule.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 22-Jan 28</td>
<td>Getting Started with ASP .Net 4 (HTML5) Building an ASP .NET Web Site</td>
<td>Chapter 1 &amp; 2 W3schools.com</td>
</tr>
<tr>
<td>Jan 29–Feb 4</td>
<td>Design your Web Pages (HTML5 &amp; CSS)</td>
<td>Chapter 3 W3schools.com</td>
</tr>
<tr>
<td>Feb 5–Feb 11</td>
<td>Working with Server Controls Programming your ASP .NET Web Pages</td>
<td>Chapter 4 &amp; 5</td>
</tr>
<tr>
<td>Feb 12–Feb 18</td>
<td>More server controls and code-behind programming Exception Handling, Debugging and Tracing</td>
<td>Chapter 18 &amp; Additional materials</td>
</tr>
<tr>
<td>Feb 19–Feb 25</td>
<td>Review</td>
<td><strong>Exam 1 on Feb. 24 (Friday) @ from 9:00-11:00am</strong></td>
</tr>
<tr>
<td>Feb. 26–Mar. 3</td>
<td>Introducing Database</td>
<td>Chapter 12</td>
</tr>
<tr>
<td>Mar 4–Mar 10</td>
<td>Displaying and Updating Data</td>
<td>Chapter 13</td>
</tr>
<tr>
<td>Mar 11–Mar 17</td>
<td>LINQ and the ADO .NET Entity Framework</td>
<td>Chapter 14</td>
</tr>
<tr>
<td>Mar 18–Mar 24</td>
<td>Working with Data – Advanced Topics</td>
<td>Chapter 15 &amp; Additional materials</td>
</tr>
<tr>
<td>Mar 25–Mar 31</td>
<td><em>Spring Recess</em></td>
<td></td>
</tr>
<tr>
<td>Apr 1–Apr 7</td>
<td>Review</td>
<td><strong>Exam 2 on Apr. 6th @ from 9:00-11:00am</strong></td>
</tr>
<tr>
<td>Apr 8–Apr 14</td>
<td>Security in your ASP .NET 4 Web Site</td>
<td>Additional materials</td>
</tr>
<tr>
<td>Apr 15–Apr 21</td>
<td>Creating Consistent Looking Web Sites</td>
<td>Chapter 6</td>
</tr>
<tr>
<td>Apr 22–Apr 28</td>
<td>Navigation &amp; Validating User Input</td>
<td>Chapter 7 &amp; 9</td>
</tr>
<tr>
<td>Apr 29–May 5</td>
<td>Deploying your website</td>
<td>Chapter 19</td>
</tr>
<tr>
<td>May 6–May 12</td>
<td>Review</td>
<td><strong>Final: May 11 (Friday) @ from 9:00-11:30am</strong></td>
</tr>
<tr>
<td>May 18th</td>
<td>Project Presentation</td>
<td><strong>@ from 9:00-11:30am</strong></td>
</tr>
</tbody>
</table>

Welcome to the class. I hope you will not just gain knowledge and skills, but also finding the subject interesting. Please let me know how I can make this class experience better for you. I am looking forward to working with you this semester!

Jenny Zhang