

Course Syllabus  
INFS 4300-001: Web Applications Development II  
**Information, Operations & Technology Management Department**  
**The University of Toledo**  
**Term: Spring, 2011**

### 1. Instructor

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Classroom: Savage & Associates Complex for Business Learning and Engagement  
(New Building): ST1100

### 2. Prerequisites

The proper prerequisites to this course are:

- INFS 3380: Web Application Development I, and
- INFS 3770: Small Business Database Systems (or our previous database course)

### 3. Book(s) & Software Requirements:

There will be no formal textbook for this class. Most of the lecture materials will be available:

- In the instructor's handouts (to be posted on the WebCT). Please visit the WebCT of our class frequently for posted handouts and announcements.
- You may also find the following Internet Tutorial site useful:  
<http://www.maconstateit.net/tutorials/ASPNET20/default.htm> This site is based on ASP 2.0, however, its materials and examples are okay for our class.
- **Recommended Companion Book:** Some of our past students found the following book very handy (for reference purposes). If you are interested in learning somewhat advanced materials of ASP.NET, you may want an old or new copy of the following book: *ASP.NET 3.5 unleashed* by **Stephen Walther, Sams (publisher):**  
[http://www.amazon.com/ASP-NET-3-5-Unleashed-Stephen-Walther/dp/0672330113/ref=sr\\_1\\_2?ie=UTF8&qid=1231780059&sr=1-2](http://www.amazon.com/ASP-NET-3-5-Unleashed-Stephen-Walther/dp/0672330113/ref=sr_1_2?ie=UTF8&qid=1231780059&sr=1-2). Although the book is on ASP.NET 3.5, most of its introductory materials will also work in ASP.NET 2.0 and above. The book comes with a CD using C#, but you can download the sample VB.NET code from the publisher's site.
- Depending on the COBA IT Support's success on configuring an operational PHP Web server to be used by our students, we may cover about two to three weeks on PHP (preferably at the beginning of the semester. A good tutorial site is available at <http://www.maconstateit.net/tutorials/PHP/default.htm>
- **Software Requirements:** In our class, we will use VS.NET2010 with Microsoft .NET Framework 3.5 and VB.NET 2010 (unless the UT IT Support people load some other versions in the lab computers). Anyway, you should not be concerned about the versions. My examples will hopefully work as good in other versions of .NET.

- We will also use Microsoft Access \*.mdb and \*.accdb files and hopefully SQL Server and Oracle databases in our class demonstrations.
- For your own computer, you may be able to download free versions of VS.NET (that comes packaged with ASP.NET) and SQL Server Express. Almost all Microsoft softwares are also available free for students (for the college of Business students.) via the MSDN Academic Alliance program. Please send an email to **cobaccd@utnet.utoledo.edu** to register in this program.
- UT College of Business has also implemented the Virtual Lab facilities where you can use any lab system remotely from your own computer. You may want to visit the site **<https://vlab.utoledo.edu/>** to see their services on free software use (or contact Mr. Cory Marshall at CMarsha@UTNet.UToledo.Edu (phone: 419-530-4607), Stranahan Hall ST5007).
- If we cover PHP, the UT Support will give us a PHP server. PHP and MySQL are public domain software. For your own computer, you may be able to download and install these software from <http://php.net/downloads.php> and <http://dev.mysql.com/downloads/>
- Please note that the above software is not needed unless you want to self-learn at a more advanced level. Most of the software will be available on the lab computers.

#### 4. Course Objectives

The course will explore the server-side Web application development technologies. In addition to developing data intensive server-side Web applications, the course will also address the Web architecture, CGI protocols, and basic web server management. All lecture materials, exercises, demonstrations, assignments, and term project will be based on Microsoft ASP.NET and Visual Studio VS.NET2010. After the completion of this course, a student should be able to:

1. Understand the form-submission mechanisms (CGI protocol)
2. Use VS.NET 2010 for rapid application development.
3. Create and test ASP.NET Web Pages
4. Create data intensive server-side Web applications
5. Process XML Documents, if time permits in our class to include this topic.