

MCIS 6314 Web Programming

Summer 2003

- Meetings** Mondays, 6:50 pm – 9:40 pm, 5/12/03 - 8/11/03, Trustee Hall 205
- Office Hours** By appointment, or e-mail or call
- Textbook** Crouch, *ASP.NET and VB.NET web programming*, Addison Wesley, 2002
- Description** This course teaches students to program Internet applications, including e-commerce applications and ones that use a database or multimedia. Different approaches are presented, such as visual programming, scripting languages, XML and Java.
- Prerequisites** ISMG 5300 or equivalent computer programming experience in some high-level language, ISMG 6306, ISMG 6308 (including basic HTML)
- Objectives**
- Understand one visual development environment and web-programming system (Microsoft.NET using Visual Basic) well enough to be able to program and set up a small website that interacts with a database. This includes using
 - Active Data Objects (ADO.NET)
 - Active Server Pages (ASP.NET)
 - Internet Information Server (IIS)
 - Understand the characteristics, advantages and disadvantages of other Internet technologies, including:
 1. Java, Java applets, C#, ActiveX/COM
 2. Servlets and Java Server Pages
 3. Java 2 Enterprise Edition (J2EE), JDBC
 4. JavaScript and VB Script
 5. Dynamic HTML, Document Object Model, Cascading Style Sheets
 6. CGI and PERL
 7. Cold Fusion and Spectra
 8. IBM WebSphere, Apache
 9. Microsoft Commerce Server
 10. Credit Card Processing, Macromedia Flash
 11. XML, XSL, Web services

Current syllabus for this course may be obtained from professor. This is a sample syllabus and should not be used by students enrolled in this course.

Blackboard and e-mail

I will communicate with you via Blackboard and e-mail. I will post assignments for each Monday no later than 5 pm the Tuesday before, but normally earlier. If there are other communications on Blackboard, I will inform you by e-mail, and assume that it will be in your hands in a few hours. I suggest you forward your SEU e-mail to an account that you check often.

Time Required

In addition to the time in class, expect to spend about 9 hours per week preparing. This follows the Graduate School of Management standard of 3 hours per class hour.

Disabilities

If you need accommodation for a disability, bring me documentation from Student Disability services, www.stedwards.edu/aps/sds.htm, 448-8557, 448-8660.

Grading

Homework	15%
Report	15%
Project	20%
Mid-term Exam	20%
Final	30%

- Assignments are due at the beginning of the class period.
- Assignments should be submitted using the Blackboard Digital Drop Box, if possible.
- Late assignments will not normally be accepted.
- The project will be accepted late and penalized 5% per 24 hours.

Attendance

You are expected to be in class unless there is a good reason why you cannot be and you contact me in advance, if possible. Unexcused absences will be penalized 3% of your final grade.

Turning in Assignments

- **Programs:** Include the entire directory tree, including all the .ASPX files and everything else.
- **Non-programs:** Give answers in order in a single Word, Excel, PowerPoint or text file.
- **Delivery:** Place everything in one zip file, preserving folder names, and put it in the digital drop box.

If you need to use paper for something (like a chart, where it is more convenient to draw it), that's OK. The point is to have everything in the same format and to have everything together, as much as is practical

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Student Presentation

- Each student will present a 30-minute report on an assigned subject related to web programming.
- The subjects are normally chosen from the numbered objectives above, although you are welcome to suggest topics.
- The list will be adjusted according to the number of students.
- You should have a handout of approximately five pages for the class.
- Your audience is technical managers, who want conceptual information about how the product(s) work(s), comparisons with similar products, appropriate use, strengths and weaknesses, a pricing overview, and knowledge of how it fits with other products and how it fits into the history of the Internet.

Web Programming Project

In addition to small programming assignments, each student will write one larger web program during the second half of the term.

Your programming project should be professional quality:

- Graphically pleasing. You don't need to be an artist or spend a lot of time, but everything should be aligned and consistent in style.
- Consistent style.
- Bug free, unusual inputs and circumstances handled gracefully
- Messages, controls and layout should communicate to the customer how the program works.
- All code must be easily understandable and well commented.
- Coding style must be consistent and reasonable. (An example of an unreasonable style would be one with no indenting.)

Tentative Schedule

Assignments will be posted on Blackboard, and will take precedence over this.

Mtg	Due	Assignment or Topic
1	5-12	Introduction, Visual Basic Overview Install Visual Studio.NET and SQL Server on the computer you will use to do your assignments.
2	5-19	Read Crouch, Chapter 1, The .NET Platform and the Web <ul style="list-style-type: none"> o You may skip sections 1.4 and 1.10. Study Crouch Sections 1.5-1.7 Study Crouch Chapter 2, The VB.NET Crash Course, as needed, except read 2.75-2.79 and skip 2.8
	5-26	Memorial Day
3	6-2	Study Crouch, Sections 3.1-3.6, Working with ASP.NET Skip Crouch, Section 3.7 (We are focusing on web controls) Study Crouch, Sections 3.8-3.15
4	6-9	Study Crouch, Sections 3.18.1-3.18.5, 3.21, 3.23-3.24

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5	6-16	Study Crouch, Sections 5.1-5.2, Building .NET Managed Components Study Crouch, Sections 7.1-7.4.2, Accessing Data with ADO.NET Read Crouch, Sections 7.4.3, 7.6.0
6	6-23	Wrap-up and Review
7	6-30	Mid-term
8	7-7	Student Presentations 1-3
9	7-15	Student Presentations 4-6
10	7-21	Student Presentations 7-9
11	7-28	Student Presentations 10-12
12	8-4	Wrap-up and Review
13	8-11	Final

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