

IT 431: Intermediate Web Development
Spring 2008

Professor:	Dolores Fox
Office:	Prince William campus, Bull Run Hall, Room 259
Phone:	(703) 993-3695
Email:	dfox@gmu.edu
Class Room and Hours:	Bull Run Hall Room 259, Thursday 7:20 pm – 10:00 pm
Office Hours:	TBD

TEXTS:

Required: Internet & World Wide Web How to Program, Fourth Edition by P.P.J. Deitel and H.M. Deitel. ISBN: 0-13-175242-1

ADDITIONAL TOOLS:

Required: 40 gigabyte hard drive

COURSE DESCRIPTION:

Continuation of IT 331 (Web I: Introduction to Web Development). Course covers rapid application development (RAD) and client and server-side scripting for user and database interaction. Students build on skills in both client and server-side scripting using the document object model (DOM).

COURSE OBJECTIVE:

Upon the successful completion of this course, student will:

- Understand a web server's functionality
- Create a MySQL database and retrieve data using advanced techniques
- Create Web applications using ASP.NET 2.0
- Modify database records using a ASP.NET solution
- Add Ajax functionality to existing ASP.NET web applications
- Develop web applications using Java Technologies and Netbeans
- Validate user input on a web page
- Incorporate Ajax Enabled JavaServer Faces (JSF) into Web Applications
- Understand and implement Web services

PREREQUISITES:

IT 108 and IT 331 or permission of the instructor.

EXAMS:

There will be a midterm and a final exam. There will be no make-ups for any reason.

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PROJECT:

Students are required to complete two mini-projects. For more information on projects, check the project tab of course web page.

If you need help or have questions about the project, you need to let me know - I want to help, but can only do so if you let me know that you need help. Points are not deducted for asking questions.

LAB EXERCISES:

Each lab exercise is worth 2 points. The lab exercises will help you in your project. These exercises must be done in class to get full credit. Due to the nature and schedule of the class, late labs will **not** be accepted. Due dates for each lab are specified on the schedule. A 40 gigabyte hard drive to complete the labs. The hard drive is needed to configure Web server via virtual machine. Make sure to bring the hard drive to the 2nd class period to be held on January 31, 2008.

MAKEUPS:

Unless arrangements are worked out in advance, missed exams cannot be made up. If a student misses a scheduled examination without prior permission, s/he will receive a grade of zero. Email submissions of exams without prior consent will not be accepted.

HONOR CODE:

All work in this class is to be the result of individual effort. See the instructor if you need help. The instructor reserves the right to modify the grading scale and/or require a student to be examined orally if questions about the integrity of the student's work arise. Honor Code violations hurt everyone! Honor code violations will be prosecuted to the fullest extent. For more information, read GMU Honor Code.

GRADING:

The final course score is computed on a 100-point total using the following formula:

Mid term Exam	30%
Final Exam	30%
Lab Exercises	20%
Projects	20%
Total Points	100%

The numerical score is then converted to a letter grade using the following scale:

A: 94 – 100
A-: 90 – 93
B+: 86 – 89
B: 83 – 85
B-: 80 – 82
C+: 75 – 79
C: 70 – 74
D: 60 – 69
F: 0 – 59

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Students are asked to review the policy and procedures covering academic dishonesty in the current GMU Honor Code.

SCHEDULE:

The following schedule is subject to change as the course progresses.

Week	Date	Topic	Lab Exercises and Reading
1	1/24	Web Servers (IIS and Apache)	Chapter 21
2	1/31	Database: SQL, MySQL, ADO.NET 2.0	Lab #1 Chapter 22
3	2/7	Database: SQL, MySQL, ADO.NET 2.0 (continued) ASP.NET 2.0 and ASP.NET Ajax	Lab #2 Chapter 22 (cont.) Chapter 25
4	2/14	ASP.NET 2.0 and ASP.NET Ajax (continued)	Lab #3 Chapter 25 (cont)
5	2/21	ASP.NET 2.0 and ASP.NET Ajax (continued) Project I assigned	Lab #4 Chapter 25 (cont.)
6	2/28	JavaServer Faces Web Applications	Chapter 26 Lab #5 Work on Project I
7	3/6	Midterm Exam	
8	3/13	SPRING RECESS	
9	3/20	JavaServer Faces Web Applications (continued)	Chapter 26 Work on Project I
10	3/27	Ajax-Enabled JavaServer Faces Web Applications (continued)	Lab #6 Chapter 27 Project I due
11	4/3	Ajax-Enabled JavaServer Faces Web Applications (continued) Project II assigned	Lab #7 Chapter 27 (cont.)
12	4/10	Ajax-Enabled JavaServer Faces Web Applications (continued)	Lab #8 Chapter 27 (cont.)
13	4/17	Web Services	Chapter 28
14	4/24	Web Services	Chapter 28 (cont.) Lab #9
15	5/1	Web Services	Chapter 28 (cont.) Lab #10
16	5/8	Final Exam	Project II due