

COURSE SYLLABUS

Course	COAP 2120	Title	DATA HANDLING ON THE WEB
Instructor	Michael Hahsler	Tel.	31336/6081 0699 100 00 598
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Term	Spring I 2003	Site	Webster, Vienna

1. COURSE DESCRIPTION

This course emphasizes the role of the Intranet as a communication medium for business. The focus of the course is on dynamic Web publishing technologies. The student will learn how to publish documents, workbooks and presentations in different formats suitable for the Web (HTML, XML, PDF) and how to design a dynamic Web site using server-side scripting with Active Server Pages (ASP using VB-script) and databases (Access). This course involves some basic programming which will be taught in class. In the second half of the course the student will apply the technologies learned on a small Web project.

2. INCOMING COMPETENCY OF STUDENT EXPECTED BY INSTRUCTOR

Students must understand Web page development with HTML and understand databases and SQL using Access.

Prerequisites are COAP 1020, COAP 2000 and COAP 2550 or permission of the instructor.

3. COURSE STATEMENT OF OBJECTIVES

To assist the student in understanding:

- a) how to apply Web technology to business data management issues;
- b) how to build a company Web site, based on a variety of technologies and data sources;
- c) how to apply server-side scripting to develop database-driven Web sites.

4. COURSE SCHEDULE (all classes are on Tuesdays and Fridays, 10:00 – 12:00)

Week 1 **Review of Web Development Methods**

Topics: *Internet Architecture, Review of HTML, Cascading Style Sheets and Databases, Conversion of Office Documents to PDF*

Reading: Text Chapter 1 and 2

Week 2 **Databases and the Web I**

Topics: *Relational Databases, ER-Diagrams, SQL*

Reading: *Text Chapter 2 and 3*

Project: Introduction to the project

Week 3 **Databases and the Web II**

Topics: *Connecting to Databases: ADO, ODBC*

Reading: Text Part 2

Exam: Friday, Mid-Term Exam on Week 1, 2 and 1. Class of Week 3

Project: Problem Statement is due

Week 4 **Developing Web Applications I**

Topics: *Server-side Scripting with VB-Script (ASP)*

Reading: Text Chapter 7

Project: ER-Diagram for the DB is due

Week 5 **Developing Web Applications II**

Topics: *Advanced Scripting*

Reading: Text Chapter 8 and 9

Project: Progress Review

Week 6 **Working on the Project / Data Integration with XML**

Topics: *Concept of Markup Languages, SGML, XML*

Reading: Text Part 5

Project: Progress Review

Week 7 **Working on the Project**

Project: Final Review

Week 8 **Project Presentation and Project Submission**

Project: Presentation and Submission of Student Projects with Documentation

**SUCCESSFUL COMPLETION OF THE COURSE REQUIRES THAT THE ASSIGNED TEXT IS READ
AND THAT THE PROJECT IS SUBMITTED BY THE END OF WEEK 8.**

5. REQUIRED TEXT BOOK

Jim Buyens: *Step by Step Web Database Development*, Microsoft Press, Redmond, WA, 2000
ISBN: 0735609667

6. COURSE REQUIREMENTS

	% of grade
1) Class Participation	10
2) Mid-Term Exam on Weeks 1 - 3 (30 minutes in Week 3)	20
3) Problem Statement (due in Week 4)	15
4) ER-Diagram (due in Week 5)	15
5) Presentation (in Week 8)	10
6) Prototype and Documentation (due in Week 8)	30

Course %	Course Grade
93 - 100	A
90 - 93	A-
87 - 90	B+
83 - 87	B
80 - 83	B-
77 - 80	C+
73 - 77	C
70 - 73	C-
67 - 70	D+
60 - 67	D
< 60	F

MISSED CLASSES, PARTICIPATION AND THEIR EFFECTS ON YOUR GRADE

I know that absences are sometimes unavoidable due to sickness, business travel etc. However, we have only 32 hours of class time, so Webster policy dictates that each class missed without pre-arranged make-up work will cost you ½ of a letter grade, i.e. you will lose 5% of your grade for each class missed unless you arrange make-up work with me beforehand. You will not be able to make up completely for the absence, since you will have missed all discussion and interaction in the class itself, but you can make up some of the loss. I therefore urge you to contact me in advance if you are forced to miss a class and arrange how you can make up for the absence. Failure to do so will result in an unexcused absence. Normally the make-up will involve the preparation of a paper about the missed topic.

7. FINAL GRADES

The final grades will be sent by e-mail to the students.

8. TERM PROJECT

Each Student is required to analyze and implement a Web application of his/her choice. This application must consist of Web pages with a connection to a database. The topic as well as the scope of the application will be discussed in week 2. Progress should be reported weekly.

In week 8 each student has to present and submit the completed project. It consists of the working Web-based application together with the documentation (7 - 15 pages, a template document will be provided). *Late submissions will not be accepted!*