

Data and Databases II (MSIE607 S07)

3 credits

Description

There is now a vast amount of material in HTML on the Web, but HTML is not a "data-friendly" format. In this course we consider the issues involved in representing and manipulating data in HTML, and examine the emergence of XML-based alternatives to classic HTML.

Intended Audience and Rationale

Students enrolled in the MSIE or MSIT programs at Marlboro College Graduate Center..

Goals

Students will gain an understanding of the limits of HTML as a vehicle for presenting data on the web, core XML concepts, and the use of XML as a methodology for transporting data on the web.

Topical Outline

Session	Topic
Session 1 (5/5)	Core XML
Session 2 (5/19)	XML Validation
Session 3 (6/2)	XPath and XSLT
Session 4 (6/16)	XML, XQuery and relational databases
Session 5 (6/30)	HTML, web information retrieval, XHTML
Session 6 (7/21)	grass roots web metadata, semantic web, microformats, tagging
Session 7 (8/4)	Topics to be determined

Instructional Procedures

The face to face time will consist of seven 3-hour class lectures. The purpose of each of the lectures will be to introduce a major XML related topic (see topical outline above). I will encourage these lecture sessions to be as interactive as possible. Between lectures, I expect students to do a fair amount of research and reading on the assigned topics.

Evaluation Procedures

- Class attendance and participation – 25%
- 3 Homework assignments – 20% per assignment
- Online Collaboration – 15%

Prerequisites

Data and Databases I (MSIE606) or permission of the instructor or MSIE program director.

Instructional Resources

XML in a Nutshell (3rd Edition) – Rusty Harold and W. Scott Means;
ISBN: 0-596-00764-7

Competence Statement

I worked for 24 years as a software designer and developer at IBM in Kingston and Poughkeepsie, New York, and at Research Triangle Park in Raleigh, North Carolina. In my first 19 years at IBM, my focus was on operating system development in the area of networking communications. During the last 5 years, I was involved in the design and development of web servers (Lotus Domino Go and Apache) and application servers (Websphere Application Server).

In 2002, I left IBM to pursue a business opportunity with my wife here in Vermont.

In 2004, I returned to school after a 26 year absence from the academic environment, and starting working on an MSIT degree here at the Graduate Center. I graduated in August of 2006.

Contact Info

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I will attempt to answer all emails within 24 hours. Feel free to email me anytime with questions, although I would encourage you to post your questions in the Databases II conference in Firstclass.

(note: I will be unavailable from 5/16 to 5/23)