CIS 571 Syllabus (Winter 2010)
Web Services

1 General Information

• **Professor** – Dr. Brahim Medjahed.
• **When** – Wednesday, 6:10 pm - 9:00pm.
• **Where** – PEC 1330.
• **Office Hours** – Tuesday/Thursday 3:30pm - 5:30pm; Wednesday 2:00 pm - 6:00 pm; or by appointment.
• **Office** – CIS 242.
• **E-mail** – brahim@umd.umich.edu
• **Phone** – (313) 583 6449.
• Lecture notes, projects, and course material and information will be posted on VLT.

2 Text Book


3 Current Catalog Description

In this course, we study the major concepts and techniques for enabling Web service based interactions on the Web. The objective is to familiarize the students with the recent trends in industry and academia to address Web service research issues. The course will address various aspects of Web services including the reference model for Web services (UDDI, SOAP, WSDL), Web service composition, semantic Web services, security/privacy in Web services, and overview of Web service standards (BPEL4WS, WS-Security, etc.) Participation in major projects is at the core of this course.

4 Course Objective

The objective of this course is to familiarize the students with the recent trends in industry and academia to address Web service research issues. The aim is to get the students more involved in one or more of the topics related to Web services.
5 Course Policy

- All students must respect the statement on academic conduct (please, see Section 13).
- Please read your email regularly for announcements.
- You are expected to return your assignments at the due date (before midnight). Late assignments (project, presentation) will be penalized 5% off for each late day.

6 Interaction

I will create a topic in VLT’s question board about each topic/chapter. Students are encouraged to actively participate in the question board by submitting questions, answers, useful links, etc. related to each topic.

7 Projects

Participation in projects is at the core of this course. There will be two (2) projects. All projects are individual. At the end of the project, each student will have to

- Submit a report describing the design of his/her project (no more than 10 pages: single-space, 1 inch margins).
- Present a project demo showing the major features of his/her implementation (no more than 10 minutes).

ALL projects should be implemented in .Net. You can use the programming language of your choice.

8 Guest Speakers

We will have guest-speakers from local companies who will talk about the use of Web services and SOAs (Service-oriented Architectures) in the industrial/business world. The names, dates, and topics of the presentation will be posted later on.

9 Main Topics

The course will focus on the following topics:

- XML, DTDs, and XML Schema.
- Introduction to Web Services.
- Reference model for Web services (UDDI, SOAP, WSDL).
- Web service composition.
- Web service coordination.
• Web service transaction.
• Security in Web services.
• Overview of Web service standards (BPEL4WS, WS-Policy, etc.)

10 Grading

• First Project: 30%.
• Second Project: 30%.
• Final Exam: 40%.

11 Important Dates

• Project 1
  1. Posted: January 20th, 2010
  2. Due: March 10th, 2010

• Project 2
  1. Posted: March 10th, 2010
  2. Due: April 21st, 2010

• Final Exam: Wednesday, April 28th, 2010, 6:30pm-9:30pm.

12 Disability Resource Services

The University will make reasonable accommodations for persons with documented disabilities. Students need to register with Disability Resource Services (DRS) every semester they are enrolled for classes. DRS is located in Counselling & Support Services, 2157 UC. To be assured of having services when they are needed, students should register no later than the end of the add/drop deadline of each term.

13 Statement on Academic Conduct

The University of Michigan - Dearborn values academic honesty and integrity. Each student has a responsibility to understand, accept, and comply with the university’s standards of academic conduct as set forth by the Code of Academic Conduct, as well as policies established by the schools and colleges. Cheating, collusion, misconduct, fabrication, and plagiarism are considered serious offenses. Violations will not be tolerated and may result in penalties up to and including expulsion from the University.