CIS 634 Syllabus (Winter 2011)
The Semantic Web

1 General Information

- **Professor** – Dr. Brahim Medjahed.
- **When** – Thursday, 6:10 pm - 9:00pm.
- **Where** – ELB 119.
- **Office Hours** – Thursday 2:00 pm - 6:00 pm; or by appointment.
- **Office** – CIS 242.
- **E-mail** – brahim@umd.umich.edu
- **Phone** – (313) 583 6449.
- Lecture notes and course material/information will be posted on VLT.

2 Text Book

- No textbook is required for this course. I will provide reading materials throughout the semester.

3 Current Catalog Description

The aim of this course is to investigate the fundamental concepts, techniques, and technologies for enabling the envisioned semantic Web. The topics to be covered in this course include ontologies, domain modeling, logic, reasoning and inference techniques, semantic Web services, and ontology interoperation/mapping. We will review major research semantic Web projects as well as current technologies for enabling the semantic Web.

4 Course Policy

- All students must respect the *statement on academic conduct* (please, see Section 10).
- Please read your email regularly for announcements.
- You are expected to return your assignments at the due date. Late assignments will be penalized 5 points off for each late day.

5 Paper Presentation and Exams

- I will provide two (2) lists of research papers that cover the course topics. Each student will do a presentation about two (2) assigned papers (one per list) and submit a summary for each paper.
- The course will have a midterm and final exam.
6 Main Topics

The course will focus on the following topics:

- Introduction to the Semantic Web.
- RDF (Resource Description Framework) and RDF Schema.
- Description Logic.
- Web Ontology Language OWL.
- SPARQL (Simple Protocol And RDF Query Language).
- RIF (Rule Interchange Format).
- SWRL (Semantic Web Rule Language).
- Trust.
- Semantic Web Services.

7 Grading

- Paper Presentation 1: 20%.
- Paper Presentation 2: 20%.
- Midterm Exam: 30%.
- Final Exam: 30%.

8 Important Dates

- Midterm Exam: Thursday, February 24rd, 2011, 6:10pm-9:00pm.
- Final Exam: Thursday, April 21st, 2011, 6:30pm-9:30pm (to be confirmed).

9 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 Counseling & 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.

10 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.