

COMP 790 Semantic Web (3 credit hours) Fall 2009

MW: 2:00-2:50, McNair 312

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Office Hrs.	MWF: 10:00-11:00, 1:00-3:00; TR: 1:00-3:00	MWF 10:12, 2:00-3:20	

Readings: Reading materials will be assigned during the course of the semester.

Description: The Semantic Web is an extension of the current web in which information is given well-defined meaning, better enabling computers and people to work in cooperation. Topics to be covered in this course include

- Meta-data models & ontology languages for the Semantic Web (RDF, RDF Schema, OWL)
- Ontology engineering
- Social tagging, folksonomies, and bottom-up ontologies
- Application software for the Semantic Web

Grading

Assignments: 75 % of the course grade

Final: 25 % of the course grade

Students are expected to attend each class session.

Late Submission of Assignments

15% will be deducted for assignments submitted one session after they are due. No credit will be given for assignments submitted later than this.

Grade Ranges

A: 85-100% B: 73-84% C: 60-72% D: 50-59% F: 0-49%

Cheating: Cheating covers any case in which a student has received unauthorized aid in his/her performance that contributes to a course grade or submits material contributing to a course grade with the intent to deceive the instructor or grader. If the unauthorized aid includes help from another student, then that student is considered to have cheated as well.

If a student cheats on lab work or a homework assignment, then he/she will receive a grade of zero (a grade of F) for that item as will anyone assisting him/her in an unauthorized way. If a student cheats on an exam or final, he/she will receive a failing grade for the class. All cases of cheating will be reported to the Director of Undergraduate Studies. When a student cheats for the second or more time in any Computer Science class, he/she will receive an F in the class in which the most recent case occurred and will be referred to the University authorities for disciplinary action.

Students with special needs (e.g., hearing or vision difficulties) should inform the instructor at the beginning of the semester.

COMP 690 Data Fusion Fall 2009 Schedule of Topics

Week	Dates	Text	Additional Topic(s)
1	Aug. 17, 19, 21	Ch. 1	Introduction, RDF
2	Aug. 24,26, 28	Ch. 2	Jena
3	Aug.31, Sept. 2, 4	Ch. 2	RDF Schema, SPARQL
4	Sept. 9, 11 Labor Day: Sept. 7	Ch. 7	Applications and Linked Open Data
5	Sept. 14, 16, 18	Ch. 7	Lowercase semantic web
6	Sept. 21, 23, 25	Ch. 8	Intro to collaborative tagging systems and identification of tagging sources
7	Sept. 28, 30, Oct. 2	Ch. 8	Database schemas for tagging systems
8	Oct. 5, 7, 9	Ch. 9	Characteristics of collaboratively generated tags
9	Oct 12, 14, 16	Ch. 9	Applications of folksonomies
10	Oct. 21, 23 Fall break: Oct. 19-20	Ch. 10	Semantic tags
11	Oct. 26, 28, 30	Ch. 3	Ontologies and the Protégé Editor
12	Nov. 2, 4, 6	Ch. 3	Description Logics
13	Nov. 9, 11, 13	Ch. 4	SWRL (Semantic Web Rule Language)
14	Nov. 16, 18, 20	Ch. 4	Semantic Web Reasoners
15	Nov. 23 Thanksgiving: Nov. 25-27	Ch. 5	Semantic Web Reasoners
16	Nov. 30, Dec. 2, 4	Ch. 6	Semantic Web Services: OWL-S and WSMO

The final is Tuesday, Dec. 8, 10:30-12:30.