

CMSC 491/691
A Web of Data
Administrivia

Spring 2013

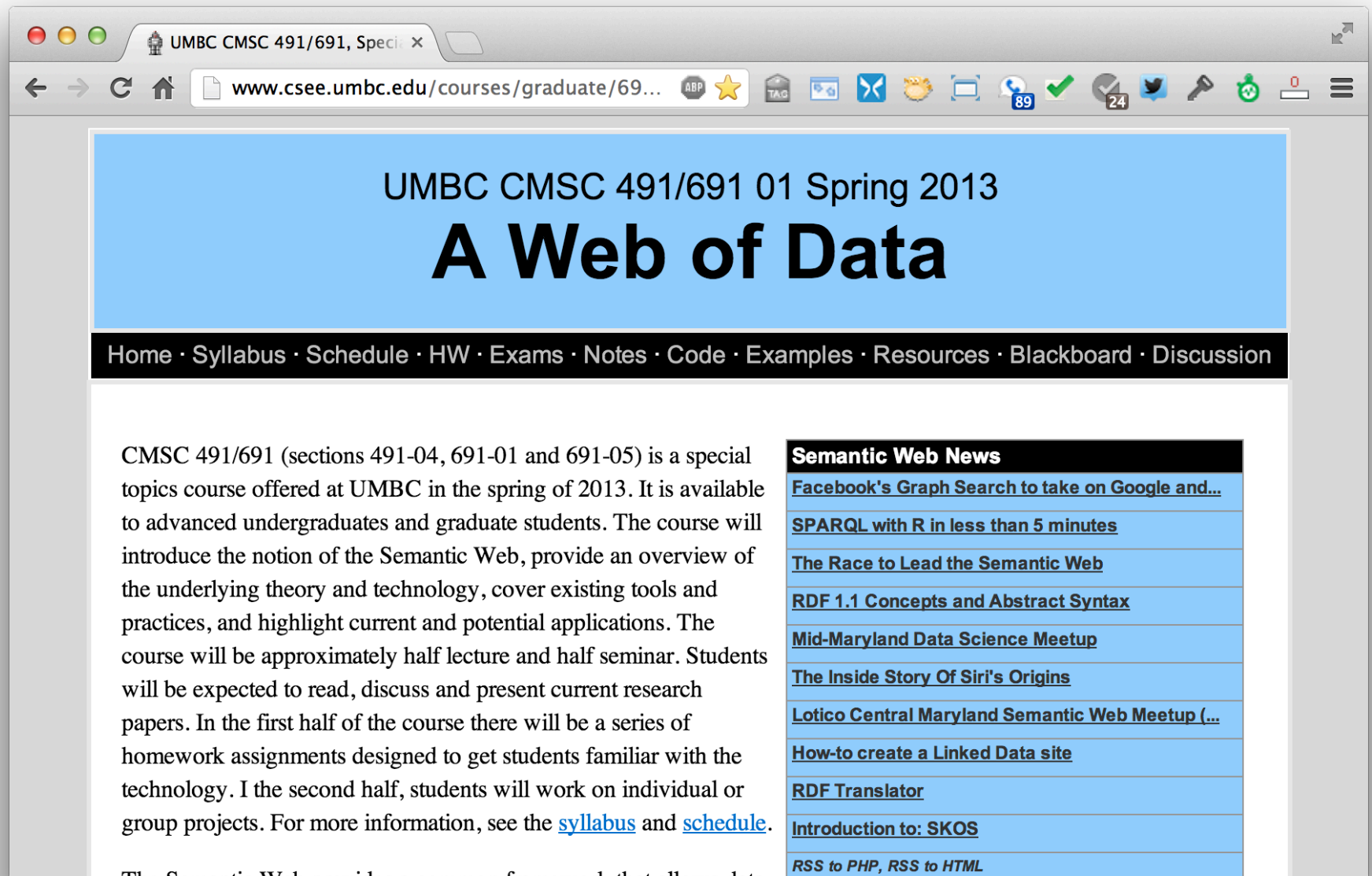
Administrivia

- Course objectives
- Resources
- Structure
- Homework assignments
- Project
- 491 vs. 691

Course Objectives

- Understand SW concepts, motivation and goals
- Be able to create and use SW ontologies
- Understand the different kinds of SW reasoning
- Familiarity with SW languages and standards
- Create, consume & manipulate SW data
- Ability to use SW software tools and systems
- Know alternatives: XML, JSON, Microdata
- Ability to define and implement a SW project

Web resources: <http://bit.ly/691S13>



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www.csee.umbc.edu/courses/graduate/69...

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A Web of Data

Home · Syllabus · Schedule · HW · Exams · Notes · Code · Examples · Resources · Blackboard · Discussion

CMSC 491/691 (sections 491-04, 691-01 and 691-05) is a special topics course offered at UMBC in the spring of 2013. It is available to advanced undergraduates and graduate students. The course will introduce the notion of the Semantic Web, provide an overview of the underlying theory and technology, cover existing tools and practices, and highlight current and potential applications. The course will be approximately half lecture and half seminar. Students will be expected to read, discuss and present current research papers. In the first half of the course there will be a series of homework assignments designed to get students familiar with the technology. In the second half, students will work on individual or group projects. For more information, see the [syllabus](#) and [schedule](#).

The Semantic Web provides a common framework that allows data

Semantic Web News

- [Facebook's Graph Search to take on Google and...](#)
- [SPARQL with R in less than 5 minutes](#)
- [The Race to Lead the Semantic Web](#)
- [RDF 1.1 Concepts and Abstract Syntax](#)
- [Mid-Maryland Data Science Meetup](#)
- [The Inside Story Of Siri's Origins](#)
- [Lotico Central Maryland Semantic Web Meetup \(...\)](#)
- [How-to create a Linked Data site](#)
- [RDF Translator](#)
- [Introduction to: SKOS](#)
- [RSS to PHP, RSS to HTML](#)

Grading

- Grades will be based on participation, homework, exam, and project
- Participation includes in class & on Piazza
- 6-8 short homework assignments
 - Will experiment with peer assessment
 - Submission details TBD
- In class exam near middle of term
- Projects can be individual or small groups and will have a proposal and final report

Instructor availability

Instructor: Professor Finin

- Official office hours: by arrangement
- Drop in whenever my door is open
- Direct general questions (i.e., those that other students may also be wondering about and that Google can't answer) to Piazza first
- We will try to respond to postings on the discussion list or private email messages within 24 hours

TA: Yang Kang, kangyan1@umbc.edu, office hours:
Mon/Wed 3:00 – 4:00

Programming, etc.

- The homework assignments will require using various systems and tools
- Some will require programming, which can be done in a language of your choice (e.g., Java, Python)
- Our examples will be demonstrated in Unix (Linux or MAC OS X), but most can be made to work on Windows
- Having a web server on your own computer may be useful