

COMP 790 Special Topics: Security & Multiagent Systems (3 credit hrs.) Spr. 2006

MWF: 2:00-2:50, Cherry 322

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Office Hours: MWF 10:00-11:00, 1:00-2:00; TR 1:00-3:00

Text: M.P. Singh and M.N. Huhns, *Service-Oriented Computing: Semantics, Processes, Agents*. Wiley, 2005.

Notes (also required reading) will be available on Blackboard.

Description: This course first addresses Web services and Service-Oriented Computing (SOC). It then looks at the Semantic Web. A parallel thread addresses software agents. The course concludes with security as it relates to SOC and SOC-based agents in particular.

Grading

Assignment and projects: 32 % of the course grade

2 Quizzes: 8% of the course grade (divided evenly)

These will be brief, c. 20 min., and will test your grasp of the fundamentals just covered.

2 Exams: 30 % of the course grade (divided evenly)

Final: 30 % of the course grade

Students are expected to attend each class session.

Exam Policies

Exams and quizzes are open book. Make-up exams will be allowed only if you arrange with me before the exam.

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 681 Formal Methods Spring 2003 Schedule of Topics

Week	Dates	Topics	Readings
1	Jan. 9, 11, 13	XML, CSS	Notes
2	Jan. 16 ¹ , 18, 20	DTDs XML Schema	Notes
3	Jan. 23, 25, 27	Web servers, DOM, SAX	Notes
4	Jan. 30, Feb. 1, 3	Web services: SOAP, WSDL, UDDI	Notes, Chapters 1-2
5	Feb. 6, 8, 10	Service-Oriented Computing (SOC)	Chapters 3, 5
6	Feb. 13, 15, 17	Ontologies, RDF	Notes, Chapters 6-7
7	Feb. 20, 22, 24	RDF Schema, OWL, Ontology management	Notes, Chapters 8-9
8	Feb. 27, Mar. 1, 3	Execution models, Transactions	Chapters 10-11
	Mar. 6, 8, 10	Spring break	
9	Mar. 13, 15, 17	Coordination frameworks, Process specifications	Chapters 12-13
10	Mar. 20, 22, 24	Formal specification and enactment	Notes, Chapter 14
11	Mar. 27, 29, 31	Agents, OWL-S	Notes, Chapter 15
12	April 3, 5, 7	Multiagent systems, Organizations, Communication	Chapters 16-18
13	April 10, 12, 14 ²	FIPA/JADE agents	Notes
14	April 17, 19, 21	Security, SAML, WS-Security	Notes, Chapter 24
15	April 24, 26, 28	XACL	Notes
16	April 27	catch-up	

The Chapters referred to in the readings are chapters in the text..

Schedule of Quizzes and Exams

Quiz 1	Wednesday, Feb. 1
Quiz 2	Wednesday, Feb. 22
Exam 1	Friday., March 4
Exam 2	Friday, April 21
Final	Friday, May 5, 10:30-12:30

¹ Jan. 16 is a University holiday.

² April 14 is a University holiday.