

University of Denver

Syllabus
Software Engineering II – COMP 3382

Course Summary

Course Name	Software Engineering II
Course Number	COMP 3382
Instructor	Michael I. Schwartz
Class Meetings	Tuesdays, June 21 st through August 16 th , 5:00 – 8:45 PM Class weeks: Weeks run Monday through Sunday, and times are given in Mountain Time.
Course Materials Location:	http://groups.google.com/group/du-comp-3382-summer-2011
Room	Magellan
Days Instructor Is Unavailable	Every Friday from 4 PM through Saturday
Course Description	The focus of this course is software architecture and component-based software engineering. Topics include model-driven architecture, service-oriented architecture, the component development process (including requirements, specification, provisioning, assembly, and testing) and current component technology. The goal of this course is for students to be able to assess the appropriateness of these techniques and to apply them in the development of large-scale systems.
Course Prerequisites	COMP 3381, Software Engineering I. Familiarity with UML will be assumed.
Course Objectives	At the end of this course, a student will be able to: a. Understand, discuss, and apply the principles of component-based software engineering b. Understand, discuss, and apply the principles of model-driven architecture c. Understand, discuss, and apply the principles of service-oriented architectures
Required Materials and Resources	
Texts	John Cheesman and John Daniels, <i>UML Components: A Simple Process for Specifying Component-Based Software</i> , Addison Wesley, 2001. ISBN

	0201708515 Stephen J. Mellor, Kendall Scott, Axel Uhl and Dirk Weise, <i>MDA Distilled: Principles of Model-Driven Architecture</i> , Addison Wesley, 2004. ISBN 0201788918 Dirk Krafzig, Karl Banke and Dirk Slama, <i>Enterprise SOA: Service-Oriented Architecture Best Practices</i> , Pearson, 2005. ISBN 0131465759
Other Materials	As posted or linked on course site, and as researched by students
Electronic Mail	Responses can also be received by mailing a description of your problem to mschwart@du.edu .
WWW	Syllabus and some links can be found at www.du.edu/~mschwart/COMP3382.html ; Google Groups: groups.google.com/groups/du-comp-3382-summer-2011
Appointments	Call 303-971-6781 (Day), 303-394-3117 (Eves).
Course Policies and Procedures	
Attendance	Course attendance is highly recommended.
Assignments	Assignments in the class are participatory. Your assignment, and your participation in discussions about assignment submissions, is expected.

Grading Policy	Final Project: 40%	Homework: 40%				Class Participation: 10%		
Scoring	93%-100%: A	90%-92%: A-	87%-89%: B+	82%-86%: B	80%-81%: B-	70%-79%: C	60%-69%: D	0%-59%: F

Academic Integrity	<p>Students are expected to do their own work. Any student caught submitting the work of others on any assignment or exam will receive an automatic "F" for the course and a report will be submitted to the Dean's Office.</p> <p>Academic dishonesty is contrary to the spirit of higher education as well as a violation of University College and University of Denver Regulations.</p> <p>At its core, academic integrity requires honesty. This involves giving credit where it is due and acknowledging the contributions of others to one's own intellectual efforts. It also includes assuring that one's own work has been completed in accordance with the standards of one's course or discipline. Without academic integrity, the foundation of scholarship itself is undermined. Academic integrity, for all these reasons, is an essential link in the process of intellectual advancement.</p> <p>Violations or non-compliance will be addressed in a manner consistent with the Student Handbook http://www.du.edu/honorcode/statement.htm#. Student committing plagiarism may be dismissed.</p> <p>For a description of plagiarism and how to avoid it, see Ronald B. Standler, <i>Plagiarism in Colleges in the USA</i> http://www.rbs2.com/plag.htm#anchor111111</p>
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Course Schedule

Following are the goals for each week's lessons:

Class / Objectives	Weekly Goals	Reading, Homework Due
Class 1: (6/21)	Introduction to component systems	UML Components, Ch 1-3
Class 2: (6/28)	Requirements definition, component identification	UML Components, Ch 4-5; Homework 1 First Iteration(PDF)
Class 3: (7/5)	Component interaction	UML Components, Ch 6; Homework 1 Final Iteration(PDF)
Class 4: (7/12)	Component specification	UML Components, Ch 7; Homework 2 First Iteration(PDF)
Class 5: (7/19)	Provisioning and assembly, Introduction to Model-driven Architecture	UML Components, Ch 8; Begin MDA, Ch 1-4; Homework 2 Final Iteration(PDF)
Class 6: (7/26)	Building models and metamodels	MDA Ch 5-8
Class 7: (8/2)	Building mappings, marking your models, and elaborating them	Begin SOA; Final Project Presentations Part 1(PDF)
Class 8: (8/9)	Service oriented architectures; services as building blocks	Final Project Presentations Part 2(PDF)
Class 9: (8/16)	Summary of course material, discussions of future directions	Review, Evaluations