



Department of Computer Science

CS 251 (Software Engineering I)

Course Syllabus

Faculty of
Computers and Information

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Instructor	Dr. Waleed A. Yousef
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Texts	Sommerville, I. (2007). <u>Software engineering</u> . Harlow, England ; New York, Addison-Wesley. Webpage: http://www.cs.st-andrews.ac.uk/~ifs/ Stevens, P. and R. J. Pooley (2006). <u>Using UML : software engineering with objects and components</u> . Harlow, England, Addison-Wesley. Webpage: http://homepages.inf.ed.ac.uk/perdita/Book/
Ref.	Pressman, R. S. (2009). <u>Software engineering : a practitioner's approach</u> . Dubuque, IA, McGraw-Hill. Webpage: http://highered.mcgraw-hill.com/sites/0072853182/information_center_view0/
Prerequisite	CS111 (it is very recommended that at least one programming course and a course in data structures are studied).
Objectives	Three main objectives are in this course: First, to develop the maturity of the programmer to consider very important issues related to software than pure programming aspects. Second, to learn the UML as a design language. Third, to be very comfortable design using CASE tool, e.g., the open source StarUML. This course is the first part of a two-semester course; the second part is SWEII.
Syllabus	The course covers the first half (16 chapters) of Sommerville in lectures; almost at the rate of one chapter per lecture. The labs will cover the following: <ul style="list-style-type: none">- UML design from Stevens; almost the half of the book.- Following up the project progression and assigning grades.- Using the CASE tool, which will be StarUML: http://staruml.sourceforge.net/
Project	1- Groups should be formed in the first week. 2- Projects should be selected (from the offered list) or proposed by the end of second week. 3- Any fudging, copying, or any form of illegal reproduction results in getting a grade of -3 out of 30.
Grading	Homeworks and Midterm: 10%, Project: 30%, and Final Exam: 60%.