

(60–311) INTRODUCTION TO SOFTWARE ENGINEERING

Semester: Fall, 2010
Classroom: Memorial Hall 105
Time: 10:00am-11:20am, Mondays and Wednesdays
Instructor: Dr. Xiaobu Yuan
(LT 8104, ext. 3790, xyuan@uwindsor.ca¹)
Office-hour: 11:20am-12:20pm, Mondays and Wednesdays

◇ *Students Interested* :^{2,3}

Those who are interested in learning the fundamental concepts, common principles, and contemporary techniques for the development of well-engineered large-scale software systems.

◇ *Objectives* :⁴

To introduce the main issues involved in the development of non-trivial software systems, including the methods, tools, and techniques of creating and evolving software products; and to provide the experience of large-scale software system development.

◇ *Prerequisites* : minimum grade of C^- in

60–212 *Advanced Computer Programming with C and Java*,
60–254 *Data Structures and Algorithms*,
60–256 *Systems Programming*.

◇ *Representative Workload* :^{5,6,7}

Assignment #1	5%	(Sept. 29, 2010)
Assignment #2	5%	(Oct. 18, 2010)
Assignment #3	5%	(Nov. 10, 2010)
Assignment #4	5%	(Nov. 29, 2010)
Midterm Examination	35%	(Oct. 20, 2010)
Final Examination	45%	(Monday 12:00pm on Dec. 13, 2010)

◇ *Grading Scheme* :

$100 \geq A^+ \geq 93 > A \geq 86 > A^- \geq 80 > B^+ \geq 77 > B \geq 73 > B^- \geq 70 > C^+ \geq 67 > C \geq 63 > C^- \geq 60 > D^+ \geq 57 > D \geq 53 > D^- \geq 50 > F \geq 35 > F^-$

◇ *Representative Course Outline* :

- Process model and ethical responsibility.
- Feasibility studies and project management.

¹Only email originating from a valid University of Windsor student account will be accepted from students wishing to contact the instructor through email.

²No student is allowed to take a course more than two times without permission from the Dean.

³Students with various documented disabilities attend University with success. Student Disability Services provides a variety of services and supports to students with documented disabilities (including: learning disabilities, attention deficit/hyperactivity disorder, acquired brain injuries, vision, hearing and mobility impairments, chronic medical conditions and psychiatric issues), who have registered with SDS. If you have, or think you may have a disability, you may wish to visit Student Disability Services to learn how best to meet your academic goals. The SDS office is located in Room 117, Dillon Hall, (519) 253-3000 ext. 3288 or online at www.uwindsor.ca/disability.

⁴Student Evaluation of Teaching (SET) forms will be administered in the last two weeks of the class.

⁵**All work must be done individually.** *Homework must be handed in in the first ten minutes of the class. Otherwise, half of the total will be deducted if no later than 24 hours, or no marks at all after 24 hours.*

⁶All communications during evaluation procedures must be in English.

⁷With the support of Student Medical Certificate filled in and signed by a qualified physician, the weight of missed midterm exam will be added to the final exam, and missed final exam will be followed by a make-up exam.

- Requirements engineering processes.
- Software prototyping.
- Software design methodologies.
- Software verification and validation.
- Software evolution.

◇ **Textbook :**

- I. Sommerville, Software Engineering, 8th Edition, Addison-Wesley, 2007.

◇ **Reference :**

- R. Pressman, Software Engineering: A Practitioner's Approach, Sixth Edition, McGraw-Hill, 2005.
- G. Heineman and W. Councill, Component-Based Software Engineering: Putting the Pieces Together, Addison-Wesley, 2001.

◇ **Online Resources :**

- Course material: www.cs.uwindsor.ca/~xyuan/311index.htm
- Textbook links: www.pearsoned.co.uk/sommerville

◇ **Policy on cheating :**

The professors and teaching assistants for 60-311 will put a great deal of effort into helping students to understand and to learn the material in the course. However, they will not tolerate any form of cheating.

The professors and teaching assistants will report any suspicion of cheating to the Director of the School of Computer Science. If sufficient evidence is available, the Director will begin a formal process according to the University Senate Bylaws. The instructor will not negotiate with students who are accused of cheating but will pass all information to the Director of the School of Computer Science.

The following behavior will be regarded as cheating (together with other acts that would normally be regarded as cheating in the broad sense of the term):

- Copying assignments
- Allowing another student to copy an assignment from you and present it as their own work
- Copying from another student during a test or exam
- Referring to notes, textbooks, etc. during a test or exam
- Talking during a test or an exam
- Not sitting at the pre-assigned seat during a test or exam
- Communicating with another student in any way during a test or exam
- Having access to the exam/test paper prior to the exam/test
- Asking a teaching assistant for the answer to a question during an exam/test
- Presenting another's work as your own
- Modifying answers after they have been marked
- Any other behavior which attempts unfairly to give you an advantage over other students in the grade-assessment process
- Refusing to obey the instructions of the officer in charge of an examination.