
SCSSE

**School of Computer Science and Software Engineering
Faculty of Informatics**

**CSCI205 Software Development Methods & Tools
Subject Outline
Spring Session 2009**

Head of School –Professor Willy Susilo, Student Resource Centre, Tel: (02) 4221 3606

GENERAL INFORMATION

Subject Coordinator

Telephone Number:

Email:

Location:

Mr Kerry Hinge

4221 4043

kerry_hinge@uow.edu.au

3.209

Mr Hinge's consultation times during session:

Day

Monday

Wednesday

Time

10.30 – 12.30

10.30 – 12.30

Subject Organisation

Session:

Credit Points

Contact hours per week:

Lecture Times & Location:

Spring Session, Wollongong Campus

6 credit points

3 hours lectures, 2 hours Computer lab

Lecture A 15:30-17:30 Mon, 67-102

Lecture B 9:30-10:30 Wed, 67-102

Tutorial Day, Time and Location can be found at: <http://www.uow.edu.au/student/timetables/index.html>

Students should check the subject's web site regularly as important information, including details of unavoidable changes in assessment requirements will be posted from time to time via e-Learning space <http://www.uow.edu.au/student/>. Any information posted to the web site is deemed to have been notified to all students.

Subject Description

This subject provides an introduction to the process of design and analysis of software. Students will receive a formal introduction to the software design process and techniques, pattern design and reuse, as well as general approaches of interface design. A UML supporting tool will be used for practice of object oriented development approach.

Subject Objectives:

On successful completion of this subject, students will be able to:

- 1.Explain the techniques and stages of a selected modern analysis and design method.
 - 2.Describe the range of application domains to which a method can properly be applied.
 - 3.Demonstrate proficiency in the correct use of the techniques learnt.
 - 4.Properly apply the method to a particular analysis and design problem within the method's application domain.
 - 5.Correctly use UML notation to document the analysis and design.
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Graduate Qualities

This subject will continue to the following graduate qualities:

Informed
Problem Solvers
Effective Communications
Team Work
Innovation & Design

Further information can be found at:

<http://www.uow.edu.au/informatics/scsse/current/SubjectInformation/UOW049401.html>

Attendance Requirements:

It is the responsibility of students to attend all lectures/tutorials/labs/seminars/ practical work for subjects for which you are enrolled. It should be noted that the amount of time spent on each 6 credit point subject should be at least 12 hours per week, which includes lectures/tutorials/labs etc.

Satisfactory attendance is deemed by the University, to be attendance at approximately 80% of the allocated contact hours.

Attendance rolls will be kept for lectures and laboratories. If you are present for less than 80% and would have otherwise passed you need to apply for student academic consideration, otherwise a TF (technical fail) grade will be recorded.

Students MUST attend their **allocated** tutorial unless they have the written permission of the subject coordinator.

Method of Presentation:

In order to maximize learning outcomes, it is strongly recommended that students attend all lectures.

Lecture Schedule:

A proposed Lecture schedule for the subject is as follows:

Week	Topic	Reading
1	Subject information, Software Engineering, Requirement Analysis	NO LABORATORIES
2	Object Concepts	LABORATORIES COMMENCE
3	Introduction to UML	
4	Essentials of Class Models	ASSIGNMENT 1 RELEASE
5	Essentials of Use Cases Models	
6	Interaction Diagrams	
7	State and Activity Diagrams	ASSIGNMENT 1 DUE
8	Design Patterns	MID-TEST
9	Design Patterns	ASSIGNMENT 2 RELEASE
10	Other Design Methods	
11	Other Design Methods	
12	Software Architecture	ASSIGNMENT 2 DUE
13	Subject Revision and Exam Preparation	NO LABORATORIES

Changes to the above schedule will be posted via e-Learning space <http://www.uow.edu.au/student/>.

Any information posted to the web site is deemed to have been notified to all students.

Subject Materials:

Any readings/references are recommended only and are not intended to be an exhaustive list. Students are encouraged to use the library catalogue and databases to locate additional readings

Textbook(s):

Using UML: Software Engineering with Objects and Components, Perdita Stevens with Rob Pooley, Second Edition, Addison-Wesley (2006). ISBN 0-321-26967-5. This is available from the University Union Bookshop

Other Resources:

Additional Reading

UML Distilled: A Brief Guide to the Standard Modeling Language, Martin Fowler, Third Edition, Addison-Wesley (2004). ISBN 0-321-19368-7.

Object-Oriented Modeling and Design with UML, Michael Blaha with James Rumbaugh, Second edition, Prentice Hall (2005). ISBN 0-13-196859-9.

UML 2.0: In a Nutshell, Dan Pilone with Neil Pitman, First Edition, O'Really (2005). ISBN 0-596-00795-7

Significant References

Software Engineering, Ian Sommerville, Seventh Edition, Addison-Wesley (2004), ISBN 0-321-21026-3.

Software Engineering: A Practitioner's Approach, Roger Pressman, Sixth Edition, McGraw Hill (2005), ISBN 0-07-285318-2.

Assessment:

This subject has the following assessment components.

ASSESSMENT ITEMS & FORMAT	% OF FINAL MARK	GROUP/ INDIVIDUAL	DUE DATE
1. Assignments There are two assignments	30%	2 people or individual	Assignment 1 due on 7 th September, Monday (Week 7) 15% Assignment 2 due on 19 th October, Monday (Week 12) 15%
2. Session Test	20%	Individual	On 14 th September, in Monday's lecture (Week 8)
3. Final Examination	50%	Individual	Examination Period

Notes on Assessment:

All assignments are expected to be completed independently. Plagiarism may result in a FAIL grade being recorded for that assignment.

Electronic Submission of Assessment Items:

Unless otherwise notified by the subject coordinator, all written assignments must be submitted electronically.

Procedures for the submission of assessment items:

Students can work on assignments in groups of two or individual.

In weeks 7 and 12, students should submit their work to the lecturer at the end of a CSCI205 lecture (Monday).

- All submissions **must be** accompanied by an Assignment Cover Sheet.
- No submission will be accepted in any electronic form.
- Each student needs to demonstrate proficiency in use of a case tool. It is assessed by four laboratory exercises. These exercises will be given to students in four different lab classes. In the end of these lab classes, students need to demonstrate their work to the tutor. This part of assessment is individual work. Schedule of these exercises will be available on the subject web page.

Submission of assessment items via email will not be accepted.

Other Procedures for the submission of assessment items:

In addition to electronic submission students are required to submit assignments in hard copy to their tutor.

To be eligible for a Pass in this subject a student must achieve a mark of at least 45% in the final examination. Students who fail to achieve this minimum mark & would have otherwise passed will be given a TF (Technical Fail) for this subject.

Procedures for the return of assessment items:

All assignments will be returned within 2 weeks of their submission.

Penalties for late submission of assessment items:

Penalties apply to all late work, except if student academic consideration has been granted. Late submissions will attract a penalty of 25% of the assessment mark.

This amount is per day including weekends.

Work more than 4 days late will be awarded a mark of zero.

Tutorial/Lab Closure Policy

If for any reason, the number of students in a tutorial or lab falls below a sustainable enrolment level, as determined by the Head of School, tutorials/labs offered for that subject may be collapsed or deleted.

You will have to attend the new tutorials/lab if this closure affects the one you are attending.

We will endeavour to make this decision no later than Week 4 of session.

Additional Information

Students must refer to the Faculty Handbook or online references which contains a range of policies on educational issues and student matters in Lab sessions

- Students must abide by the laboratory rules posted on the wall of the Laboratory (and included in this document).
- Students may use the computers outside their designated laboratory times provided the laboratory is open and no other laboratory class is scheduled. If another class is scheduled for the laboratory, you may enter no earlier than 20 minutes after the scheduled starting time and ask the supervisor whether any vacant machines may be used.
- Lecture notes and textbook may be needed for reference during the labs.

Supplementary Exams

Supplementary Exams will be dealt with in accordance with student academic consideration policy (<http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf>) 9.2 Timing of Supplementary Exams.

While the School normally grants supplementary exams when the student does not sit the standard exam for an acceptable reason, each case will be assessed on its own merit and there is no guarantee a supplementary exam will be granted. If a supplementary exam is granted, you will normally be notified via SOLS Mail the time and date of this supplementary exam. You must follow the instructions given in the email message.

Please note that if this is your last session and you are granted a supplementary exam, be aware that your results will not be processed in time to meet the graduation deadline.

Student Academic Consideration Policy

The School recognises that it has a responsibility to ensure equity and consistency across its subjects for all students. Sometimes, in exceptional circumstances, students need to apply for student academic consideration in order to complete all assessable work.

The University applies strict criteria to the granting of student academic consideration. Before applying for student academic consideration, students should carefully read the University's policy which can be found at: <http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf>.

Plagiarism

When you submit an assessment task, you are declaring the following

1. It is your own work and you did not collaborate with or copy from others.
2. You have read and understand your responsibilities under the University of Wollongong's policy on plagiarism.
3. You have not plagiarised from published work (including the internet). Where you have used the work from others, you have referenced it in the text and provided a reference list at the end of the assignment.

Students must remember that:

Plagiarism will not be tolerated.

Students are responsible for submitting original work for assessment, without plagiarising or cheating, abiding by the University's policies on Plagiarism as set out in the University Handbook under University Policy Directory and in Faculty handbooks and subject guides. Plagiarism has led to the expulsion from the University.

Student Academic Grievance Policy

The School aims to provide a fair, equitable and productive learning environment for all its students. The Student Academic Grievance Policy seeks to support the achievement of this goal by providing a transparent and consistent process for resolving student academic grievances.

Any student who has a grievance over a result should obtain a Faculty of Informatics Appeal Against Decision or Action Affecting Academic Experience form from the Informatics Student Enquiry Centre. (<http://www.uow.edu.au/content/groups/public/@web/@inf/@faculty/documents/doc/uow017433.pdf>) The student should firstly take the form to the marker/lecturer to discuss the matter and, if the student is still not satisfied, s/he should take the next step as outlined on the form.

Once the grievance has been considered by the Faculty, if the student still feels the situation has not been fully resolved s/he may consult the Dean of Students. However, the Dean of Students can have no input into the academic judgment of the lecturer and can only review the grievance to ensure proper procedure has been followed.

Relevant University Policies, procedures and students services:

For more information students must refer to the Faculty handbook, online references or consult the UOW policy in full at <http://www.uow.edu.au/handbook/courserules/studacgrievpol.html> which contains a range of policies on educational issues and student matters.

This subject outline can be found at: <http://www.uow.edu.au/informatics/scsse/current>

This outline should be read in conjunction with the following documents:

Code of Practice - Teaching and Assessment http://www.uow.edu.au/handbook/codesofprac/teaching_code.pdf	Code of Practice - Students http://www.uow.edu.au/handbook/codesofprac/cop_students.html
Code of Practice-Honours http://www.uow.edu.au/handbook/CodeofPractice-Honours.pdf	Acknowledgement Practice Plagiarism will not be tolerated: http://www.uow.edu.au/handbook/courserules/plagiarism.html
Key Dates http://www.uow.edu.au/student/dates.html	Student Academic Consideration Policy: http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf
Course Progress Requirements: http://www.uow.edu.au/student/mrp/index.html	Graduate Qualities Policy: http://www.uow.edu.au/about/teaching/qualities/index.html#_The new UOW
Academic Grievance Policy (Coursework and honours students) http://www.uow.edu.au/handbook/courserules/studacgrievpol.html	Non-Discriminatory Language Practice and Presentation http://staff.uow.edu.au/eed/nondiscrimlanguage.html
Occupational Health and Safety http://staff.uow.edu.au/ohs/commitment/ohspolicy/index.html	Ownership of Work & Intellectual Property Policy: http://www.uow.edu.au/handbook/generalcourserules/UOW028651.html
Human Research Ethics Committee: http://www.uow.edu.au/research/rso/ethics/human/	Rules for student conduct: http://www.uow.edu.au/handbook/generalrules/StudentConductRules.pdf
Independent Learners' Introductory Program http://www.uow.edu.au/student/attributes/ilip/	Informatics Faculty Librarian, Ms Annette Meldrum, phone: 4221 4637, email: ameldrum@uow.edu.au
Student Support Services: http://www.uow.edu.au/student/services/ Informatics Faculty SEDLO (Student Equity and Diversity Liaison Officers) Virginie Schmelitschek, phone 4221 3833, virginie@uow.edu.au	SCSSE Internet Access & Student Resource Centre http://www.uow.edu.au/informatics/common/uow024466.html
SCSSE Computer Usage Rules http://www.uow.edu.au/informatics/common/uow024457.html	SCSSE Subject Outlines http://www.uow.edu.au/informatics/scsse/current