GENERAL INFORMATION

Subject Coordinator
Associate Professor Minjie Zhang
Telephone Number: 02 42 21 4745
Email: minjie@uow.edu.au
Location: 3.213

Associate Professor Zhang’s Consultation Times During Session
Day
Monday 1.30pm-3.30pm
Wednesday 10.30am-12.30am

Subject Organisation
Session: Spring Session
Credit Points: 6
Contact hours per week: 3 hrs lect, 2 hrs comp lab
Lecture Times & Location:
Lecture A Wed 08:30 10:30 40.131
Lecture B Fri 09:30 10:30 20.3
Tutorial Day, Time and Location can be found at:

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

Content
This subject provides an introduction to the process of design and analysis of software. Students will receive a formal introduction to the design process and techniques, followed by the opportunity to use modern design techniques to address real-world problems. A range of modern techniques and tools will be covered, in particular UML.

Objectives
On completion of this subject the student should 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

Attendance Requirements
It is the responsibility of students to attend all lectures/tutorials/labs/seminars/practical work for subjects for which they 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 to be attendance at approximately 80%* of the allocated contact hours. Attendance rolls may be kept for lectures, TUTORIALS and laboratories. If you are present for less than 80%* you need to apply for special consideration, otherwise a fail grade may be recorded.

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

Method of Presentation
This subject consists of 3 hrs lecture, 2 hrs computer lab.

Lecture notes, lab and assessment tasks will be made available through e-Learning.

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. It is student’s responsibility to check this site regularly. Any information posted to the web site is deemed to have been notified to all students.

Lecture Schedule
A proposed Lecture schedule for the subject is as follows:

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

Subject Materials
Textbooks:
Main textbook

Additional Reading


Significant References

These 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.

**Assessment**

This subject has the following assessment components.

<table>
<thead>
<tr>
<th>Assessment Items &amp; Format</th>
<th>Percentage of Final Mark</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Assignments</td>
<td>30%</td>
<td>Assignment 1 Due on 31st of August, Friday (Week 6) 10%</td>
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<tr>
<td>There are two assignments</td>
<td></td>
<td>Assignment 2 Due on 19th October, Friday (Week 12) 20%</td>
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<tr>
<td>2. Session Test</td>
<td>20%</td>
<td>On 14th of September, Friday lecture (Week 8)</td>
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<tr>
<td>3. Final Examination</td>
<td>50%</td>
<td>Examination Period</td>
</tr>
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</table>

**Notes on Assessment**

**Assignment Submission**

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

*In weeks 6 and 12, students should submit their work to the lecturer at the end of a CSCI205 lecture (Friday).*

- 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. Theses 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.

**Return of Assessment Items**

Assignments will be available from the subject coordinator after being marked.

**Penalties for late submission of Assessment Items**

Penalties will apply to all late work. 20% will be deducted for each day it is overdue. Any submission submitted more than 4 days after the due date will score to 0 (zero) mark.

**Remarks on Assessment**

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

**Special 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 special consideration in order to complete all assessable work.

The University applies strict criteria to the granting of special consideration. Before applying for special consideration students should carefully read the University’s policy. The policy can be found at: http://www.uow.edu.au/handbook/courserules/specialconsideration.html

As an example: If a student requires an extension of time for the completion of an assignment this may be granted in certain circumstances. A request for an extension must be made to the Subject Coordinator via SOLs before the due date.

**Scaling**

Final results in this subject may be scaled. The scaling method that will be used in this subject is as follows.

For a student, if $A$ is the total mark of assignments and mid term exam i.e. $A = \text{assignments} + \text{mid term exam}$, $E$ is the mark for the final exam, the overall mark for this subject is calculated as:

- $E \geq 25$: Final mark is $E + A$
- $20 \leq E < 25$: Final mark is $\min(E+A, 47)$
E < 20: Final mark is Min (E+A, 43)

Notes:
Student with E >=25 can get any grade from F to HD.
Student with 20 <= E < 25 can get either grade F (20-44) or PC (45-47)
Student with E < 20 can only get F (1-43)

Additional Information
Students must refer to the Faculty Handbook or online references which contains a range of policies on educational issues and student matters.
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 Special Consideration Policy (http://www.uow.edu.au/handbook/ourserules/specialconsideration.html ) 6.2 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.

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.
4. Plagiarism will not be tolerated.
5. 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 Calendar under University Policies, 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 or 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 judgement of the lecturer and can only review the grievance to ensure proper procedure has been followed.

For more information, please consult the UOW policy in full at http://www.uow.edu.au/handbook/ourserules/studacgrievpol.html
This outline should be read in conjunction with the following documents:

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<th>Code of Practice - Teaching and Assessment</th>
<th>Key Dates</th>
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<tr>
<th>Code of Practice - Students</th>
<th>Information Literacies Introduction Program</th>
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<tr>
<th>Acknowledgement Practice</th>
<th>Student Support Services:</th>
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<tbody>
<tr>
<td><strong>Plagiarism will not be tolerated</strong></td>
<td>Informatics Faculty SEDLO (Student Equity and Diversity Liaison Officers) Virginie Schmelitschek, phone 4221 3833, <a href="mailto:virginie@uow.edu.au">virginie@uow.edu.au</a></td>
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<table>
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<tr>
<th>Code of Practice-Honours</th>
<th>Intellectual Property Policy</th>
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<tr>
<th>Non-Discriminatory Language Practice and Presentation</th>
<th>Occupational Health and Safety</th>
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<thead>
<tr>
<th>SCSE SISAT Student Guide</th>
<th>SCSE SISAT Student Outlines</th>
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