GENERAL INFORMATION

Subject Coordinator
Associate Professor Neil Gray
Telephone Number: 02 4221 3812
Email: nabg@uow.edu.au
Location: 3.206

Associate Professor Gray’s Consultation Times During Session
Day          Time
Tuesday      9.30-11.30
Thursday    9.30-11.30

Subject Organisation
Session: Spring Session, Wollongong
Credit Points: 6
Contact hours per week: 3 hours lecture, 2 hours tutorial
Lecture Times & Location:
Tue 13:30 - 15:30  38.G01
Thu 16:30 - 17:30  20.5

Tutorial Day, Time and Location can be found at: http://www.uow.edu.au/student/sols/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. Any information posted to the web site is deemed to have been notified to all students.

Content
This subject provides an introduction to the practical aspects of developing and managing a software project. Students will gain practical experience with tasks including: Project Management; Requirements Analysis; Software Design; Source Control and Software Testing. The subject will also include review of object-oriented design and implementation, design patterns and provide an overview of technologies for re-use. CSCI222 provides a framework for understanding and developing the necessary skills to successfully undertake the major third year software project. The emphasis of this subject is on the design and development process and its application to real world problems.

Objectives
On successful completion of this subject, students should be able to:
1. Demonstrate an understanding of the principles of good software design
2. Use appropriate tools to design a software application of moderate size and complexity
3. Use appropriate tools to develop and implement a software application of moderate size and complexity
4. Create, plan and implement a test plan for a software application of moderate size and complexity
5. Use modelling concepts and notations such as UML, use-case and the entity-relationship model
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 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
Lecturers, tutorials and laboratory assignments

Subject Materials
Lectures notes and assignment specifications will be available through e-Learning (previously WebCT).

Any variations of assignment specifications will be announced in lectures, NOT via e-Learning.

Supplementary materials will be found in /share/cs-pub/csci222. These materials may include software systems that can be installed on your own machine, reference manuals for software, and data files.

Reference books (reserve):
"Software development for small teams [electronic resource]: a RUP-centric approach" by Gary Pollice et al
"The rational unified process: an introduction" by Philippe Kruchten
"Unit Test Frameworks" by Paul Hamill
"Using UML: Software Engineering with Objects and Components", by Perdita Stevens and Rob Pooley

Other 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>
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<tr>
<th>Assessment Items &amp; Format</th>
<th>Percentage of Final Mark</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Assignment 1: Individual assignment, unit-testing of C++ code</td>
<td>15%</td>
<td>August 17th</td>
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<tr>
<td>Assignment 2: Group assignment, “Elaboration and Construction”</td>
<td>25%</td>
<td>September 21st</td>
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<td>Assignment 3: Group assignment, “Inception and Elaboration”</td>
<td>20%</td>
<td>October 26th</td>
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<tr>
<td>Final Exam</td>
<td>40%</td>
<td>Scheduled by the University</td>
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Notes on Assessment
Students must form groups of four members prior to the start of the first group assignment. The groups persist for the remainder of the session. Groups will identify their members to the subject coordinator at the start of assignment 2.

Submission of Assessment Items
The assignments require the preparation of reports containing variously design artifacts, code, evidence for correct operation of code, and other components as specified. These reports are prepared as PDF documents and submitted electronically.
In assignment-1, the unit-test assignment, the submitted work must be that of an individual; collaboration is not permitted. For assignments 2 and 3, groups must electronically submit a single PDF report and, in addition, must manually submit a cover note, signed by all group members, that gives details of the relative contributions made by the individual members of the group.

Assignments are submitted electronically using the turnin program on the University’s banshee computer (the main server for CS undergraduate work). Details of the use of turnin are included in the assignments.

**Return of Assessment Items**
Marks are posted to the SOLS system. Marker comments will be returned to students via the university’s email system.

**Penalties for late submission of Assessment Items**
The turnin system will stop accepting submissions at 11.59pm on the specified due date. The system has automatic provision for late submission for assignments 1 and 2 (assignment 3 cannot be submitted late as the due date is the last day of session). The late submission system allows for an additional three days in which to submit work. It is not necessary to apply to use late submission for assignments 1 or 2.

Penalties apply to all late work, except if special consideration has been granted. Late submissions will attract a penalty of 10% of the assessment mark per day including weekends. Work more than 3 days late will be awarded a mark of zero.

**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:

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.
If $E$ is the student exam mark, and $A$ is the student assignment mark, the student final mark will be determined as follows:

$$
\begin{align*}
\text{if } E & \geq 40\% \text{ of the maximum exam mark: then student final mark is } E + A; \\
\text{if } 35\% & \leq E < 40\% \text{ of the maximum exam mark: then student final mark is } \min(E+A, 47) \\
\text{if } E & < 35\% \text{ of the maximum exam mark: then student: final mark is } \min(E+A, 42).
\end{align*}
$$

**Additional Information**
Students must refer to the Faculty Handbook or online references which contains a range of policies on educational issues and student matters.

**Supplementary Exams**
Supplementary Exams will be dealt with in accordance with Special Consideration Policy (http://www.uow.edu.au/handbook/courserules/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/courserules/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>Plagiarism will not be tolerated</td>
<td><a href="http://www.uow.edu.au/student/services/">http://www.uow.edu.au/student/services/</a></td>
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<tr>
<td><a href="http://www.uow.edu.au/handbook/courserules/plagiarism.html">http://www.uow.edu.au/handbook/courserules/plagiarism.html</a></td>
<td>Informatics Faculty SEDLO (Student Equity and Diversity Liaison Officers) Virginia Schmelitschek, phone 4221 3833, <a href="mailto:virginie@uow.edu.au">virginie@uow.edu.au</a></td>
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<th>Code of Practice-Honours</th>
<th>Intellectual Property Policy</th>
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<th>Non-Discriminatory Language Practice and Presentation</th>
<th>SCSSE SISAT Internet Access &amp; Student Resource Centre</th>
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<th>SCSS SISAT Subject Outlines</th>
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