GENERAL INFORMATION

Subject Coordinator
Dr Ian Piper
Telephone Number: 02 4221 3157
Email: ian@uow.edu.au
Location: 3.103

Dr Piper’s Consultation Times During Session
Day TBA TBA
TBA TBA

Subject Organisation
Session: Spring Session, Wollongong
Credit Points 6
Contact hours per week: 3hrs Lectures
Lecture Times & Location:
Fri 13:30 15:30 41.203
Thu 16:30 17:30 19.G016

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
MCS9337 develops an understanding of major programming paradigms including imperative, functional, logical, object-oriented, and procedural paradigms. Introduces formal language specification. Covers language definition and syntax; data types and data structures, control structures and data flow; run-time considerations; and interpreted languages.

Objectives
On successful completion of this subject, a student should be able to:
i) Understand and appropriately use the major programming paradigms including, imperative, object-oriented, functional and logic programming.
ii) Understand the role of formal analysis in the design and definition of programming languages.
iii) Demonstrate programming proficiency in at least one representative language from each paradigm.
iv) Understand the relationship between formal specifications for syntax and semantics and the implementation of the language.
v) Use Knuth's literate programming paradigm to develop a fully documented program.

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

Students should be aware that lecture notes while providing a valuable summary of lecture material do not constitute an alternative to attendance at lectures.

**Method of Presentation**

There will be 3 hours of lectures every week. Material will be presented in two strands. The one-hour lecture each week will be used for the presentation of an introductory sequence in language design covering such areas as syntax, semantics and the various programming paradigms. The two-hour lecture will be used to present more complex or in-depth material such as new programming languages and formal semantics.

The assignments for this subject consist of four programming tasks in which students will be expected to produce solutions for the same programming problem using four different programming paradigms and programming languages.

**Subject Materials**

Due to the nature of this subject there is no set textbook. Nor are there any specified reference books.

**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>
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</thead>
<tbody>
<tr>
<td>Assignment 1 – Imperative programming task.</td>
<td>10%</td>
<td>Electronically via Unix submit Friday 10th August 2007</td>
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<tr>
<td>Assignment 2 – Literate programming task.</td>
<td>10%</td>
<td>Electronically via Unix submit Friday 31st August 2007</td>
</tr>
<tr>
<td>Assignment 3 – Functional programming task.</td>
<td>10%</td>
<td>Electronically via Unix submit Friday 21st September 2007</td>
</tr>
<tr>
<td>Assignment 4 – Logic programming task.</td>
<td>10%</td>
<td>Electronically via Unix submit Friday 19th October 2007</td>
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<tr>
<td>Final Examination</td>
<td>60%</td>
<td>Official exam period</td>
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**Notes on Assessment**

**Submission of Assessment Items**

All assignments for this subject must be submitted electronically.

**Return of Assessment Items**

Assignment marks and comments will be provided to students electronically via email.

**Penalties for late submission of Assessment Items**

2 marks may be deducted from the assignment mark for each day or part thereof the assignment is late.

**Special consideration**

An extension of time for the completion of an assignment may be granted in certain circumstances. A request for an extension must be made to the Subject Coordinator via SOLs before the due date.

**Electronic submission of Assessment Items**

Assignments will be submitted electronically using the submit system.
Remarks on Assessment
There will be 4 assignments, each worth 10% of the final mark, and marked out of 10.

Collaboration means discussing how to solve a problem, not writing the answer together.

Plagiarism and/or copying may result in a zero mark being awarded for the assignment to all students involved.

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

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

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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<tr>
<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: 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></th>
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<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>SCSE SISAT Internet Access &amp; Student Resource Centre</th>
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<tr>
<th>SCSE SISAT Computer Usage Rules</th>
<th>SCSE SISAT Subject Outlines</th>
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