
SISAT

School of Information Systems & Technology
Faculty of Informatics

ISIT114 Object Oriented Programming Subject Outline Spring Session 2009

Head of School –Associate Professor Peter Hyland, Student Resource Centre, Tel: (02) 4221 3606

GENERAL INFORMATION

Subject Coordinator

Telephone Number:

Email:

Location:

Dr Mark Sifer

4221 4919

msifer@uow.edu.au

39.219

Dr Sifer's consultation times during session:

Day

Tuesday

Wednesday

Time

9:30 – 11:00

9:30 – 10:30 and 13:30 – 15:00

Subject Organisation

Session:

Credit Points

Contact hours per week:

Lecture Times & Location:

Tutorial Day, Time and Location can be found at:

Spring Session, Wollongong Campus

6 credit points

2hr lectures, 2hr lab

Tuesday 15:30 – 17:30 PM 20.3

<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

The aims of this subject are to consolidate and extend student's knowledge and skills in structured programming and to introduce them to the concepts and practice of object oriented programming. To achieve this aim the subject will provide students with an opportunity to develop further programming skills and good coding style; develop skills in using the object-oriented concepts of inheritance, encapsulation, construction, access control, overloading and messaging; develop and display competency in the design and implementation of object-oriented programs to solve business problems.

Subject Objectives

On successful completion of this subject, students will be able to: demonstrate an understanding and appreciation of the concepts of a well structured solution and good coding style within an object-oriented programming environment; define and use the concept of an object in an object-oriented program development environment; write correct and maintainable object-oriented programs using an object-oriented programming language.

Graduate Qualities

This subject will continue to the following graduate qualities:

- Informed
- Independent learners
- Problem solvers
- Effective communicators
- Innovation and Design

Further information can be found at:

<http://www.uow.edu.au/informatics/sisat/current/SubjectInformation/UOW051055.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% of laboratories 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.

Participation in weekly laboratories is essential to achieve learning outcomes in this subject. Hence, there are 12 weekly laboratories. The 80% attendance requirement allows 2 missed laboratories without explanation. However, any additional absences above 2 require a student academic consideration application to be lodged.

Attendance at the mid-term exam and final exam is required to achieve an overall pass for this subject. In the event of illness or misadventure student academic consideration should be sought for these assessment items.

Method of Presentation:

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

This is a laboratory based subject. Concepts and examples are presented in lectures and practiced in the laboratories. Each week's laboratory exercise/assignment will usually be available on the e-Learning website prior to the lecture. Lectures include slides, working through concepts and problems on the whiteboard and interactive development of software. A summary of each week's lecture will also be posted on the e-Learning website each week.

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

Week	Topic	Lab	Reading
1	OO modeling (single class) in C#		Chapters 4
2	Objects and collections I		Chapter 9
3	Objects and collections II	A1 due (5 marks)	
4	OO modeling (simple inheritance)		Chapter 11
5	OO programming (using the library)	A2 due (5 marks)	
6	OO programming (interfaces & sorting)		Chapter 12
7	Mid Term Test in Lecture + Forms	A3 due (5 marks)	
8	Storing Data (in files) & Exceptions		Chapters 13,19
9	OO Case study	A4 due (5 marks)	
10	Storing data (in a Database)		Chapter 21
11	Advanced C# - delegates and anon functions	A5 due (5 marks)	
12	Advanced C# - LINQ		
13	Revision	A6 due (5 marks)	

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):

Dietel's, "Visual C#2008 How to program", 3rd edition, Pearson Education.

Other Resources:

Visual C# Developer Center: <http://msdn.microsoft.com/vcsharp/> Students should also use the internet, library catalogue and databases to locate additional resources.

Assessment:

This subject has the following assessment components.

ASSESSMENT ITEMS & FORMAT	% OF FINAL MARK	GROUP/ INDIVIDUAL	DUE DATE
Laboratory Assignments - are due in weeks 3, 5, 7, 9, 11, 13 and are marked in the lab. Each assignment is worth 5%.	30%	Individual	Marked in the laboratory
Mid-semester test Questions will involve reading, writing and modifying code. Marking will be based on correctness, organisation and program style.	10%	Individual	In the week 7 lecture
Final examination Reading, modifying and writing programming codes with long & short answers. Marking will be based on correctness, organisation and program style. More detail will be given in the final lecture in week 13.	60%	Individual	In the formal 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.

Laboratory assignments will involve developing code and will be assessed on meeting the requirements of the laboratory, correctness, style and presentation. The ability to modify and answer questions about the submitted code may be tested. The lab assistants will mark each student's work during the nominated lab. Lab assignments will only be marked during lab times.

The detailed rules for the marking of laboratory exercises and their due dates will be covered in the first lecture. In brief, a laboratory assignment has three levels of completion: advanced (up to 5 marks), standard (up to 4 marks) and core (3.25 marks). An assignment will only be marked for completion to advanced level on its due date. An assignment will only be marked for completion to standard level (at up to 4 marks) on its due date. An assignment may be marked for completion to standard level (at up to 3.75 marks) one week after its due date. An assignment may be marked for completion to core level (at 3.25 marks) on or after its due date. A student may submit at most one assignment for marking each laboratory session. A student must not submit assignment N for marking unless they have already completed assignment N – 1 to core level.

Assignments are marked during a time period to be announced by the subject coordinator (expected to be the second hour of each lab). Lab assignments will only be marked during the announced lab time periods.

Electronic Submission of Assessment Items:

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

Submission of assessment items via email will not be accepted.

To be eligible for a Pass in this subject a student must achieve a mark of at least 40% in the Final Exam. 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:

Marks for assessments will be given in the final part of each assessable laboratory.

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 100% of the assessment mark.

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.

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 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://www.uow.edu.au/about/policy/ohs.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	SISAT Internet Access & Student Resource Centre http://www.uow.edu.au/informatics/sisat/current/uow024466.html
SISAT Computer Usage Rules http://www.uow.edu.au/informatics/sisat/current/uow024457.html	SISAT Subject Outlines http://www.uow.edu.au/informatics/sisat/current/UOW055502.html