Course Overview



Welcome

In this topic:

- The course outline
- Course information.



Teaching Staff

- Course Coordinator/Lecturer
 - Dr Feras Dayoub
- Lecturer
 - Dr Tony Chen

Course Tutors

- Sofia McLeod
- Angela Qin
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- Ashwinraj Giriraj
- Vincy Benita Jelsingh
- Tu LAN
- Sukhman Kaur
- Angel Wadhawan
- Abdul Mohsi Jawaid
- Dung Anh Hoang



Learning Outcomes

- Implement solutions in C++.
- Test and debug C++ implementations
- Understand the core concepts of object oriented programing.
- Design object oriented solutions for small systems.
- Effective use of version control (Github).
- Effective use of the Linux command line.



Learning and Teaching Modes

Lectures:

Will be recorded and available on Monday for each week.

Interactive sessions

Quizzes about the lecture topics in class on Wednesday and Friday.

Pracs

- Will focus on developing core programming skills
- The practical exams are Individual activities.

Workshops

- Hands on collaborative sessions in groups.
- Introduce key skills required by the practicals.

Final Exam

Written and central (multiple-choice).

Workload is 10 to 12 hours per week.



Course Structure and Learning Activities

Week#	Week of	Topic	Workshop (5%)	Prac (20%)	Prac-Exam (25%)	Project (15%)	Final Exam 35%
1	25-Jul	Your first C++ program	~	5%			
2	1-Aug	Pointers & Arrays	~	5%			
3	8-Aug	Basics of OOP Design	~		2%		
4	15-Aug	Classes and Objects	~	5%			
5	22-Aug	Inheritance	~		5%		
6	29-Aug	Polymorphism	~	5%			
7	5-Sep	Abstract classes	~		8%	Form Groups	
8	12-Sep	Unified Modeling Language	~			Project Plan	
Break	19-Sep						
Break	26-Sep						
9	3-Oct	Templates & STL	~				
10	10-Oct	Static Members	~				
11	17-Oct	Exception Handling	~			15%	
12	24-Oct	Review			10%		
Exam Block							35%



Recommended Resources

The course website provides links to a number of online resources to assist students in learning programming in C++. For those students who would also like to have a text book, we would recommend the following:

"Problem Solving with C++", 10th Global Edition, Walter Savitch, ISBN-13:9781292222820, Pearson, 2018.



Practical Assessment

- All practicals are automatically marked
 - Practicals 1, 2, 4 and 6 are all individual
- The major practical project, weeks 8 to 11,
 - Group-based activity, groups of 2-3.
 - is manually assessed.
 - all members of each group must be present
- All practical exams are automatically marked
 - P-Exams in weeks 3, 5 and 7.
 - Practical Exams are individually assessed
 - no groups permitted

Prac (20%)	Prac-Exam (25%)	Project (15%)
5%		
5%		
	2%	
5%		
	5%	
5%		
	8%	Form Groups
		Project Plan
		15%
	10%	

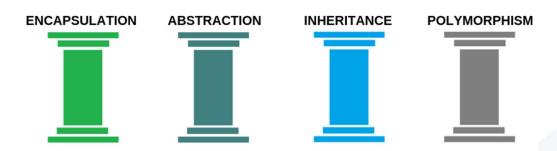
Workshop Assessment

- All workshops are automatically marked
 - groups of up to 3 students can be formed
 - all group members get the attendance mark
 - all work must be submitted **during** a workshop session
 - the attendance marks are capped at 10 workshops
- Workshops in practical exam weeks
 - an example practical exam will be attempted
- Workshop marks are for attendance
 - half mark per workshop attendance
 - marks are not awarded for functionality



Should I be here?

- We assumes you can already write small programs
 - if you struggle with the first practical consider transferring to COMP
 SCI 1101 Introduction to Programming*
- Our primary focus is programming in C++ using
 - Linux command line tools
 - a version control system (Github)
- We dive into The Four Pillars of Object Oriented Programming





Penalties for Late Submission of Work

- Unless advised otherwise and where appropriate, all other work is subject to the following late penalty policy:
 - The mark awarded will reduce by 25% for each day/part day late,
 - Marks in excess of the maximum that can be awarded are discarded.
 - Assignment work submitted 4 or more days late will receive 0 marks.
- Practical Exams
 - must be completed during the practical exam
- Workshops
 - submissions must be made during the workshop

Late submissions will not be accepted for practical exams or workshops. The work must be submitted before leaving the practical exam or workshop.

Final Examination

Final Exam

- a one-hour multiple-choice written examination
- the day, time and venue are organised by the examinations office
- all lecture material is examinable.

Hurdle Requirement:

- if your final mark for the course is greater than 44 F and,
- your mark for the final written exam is less than 40%,
- your final mark for the course will be reduced to 44 F.



Extensions and Missed Assessments

- Extensions due to medical or compassionate grounds
 - submit a request before the due date
 - provide documentation medical form / counsellor's letter
 - extensions will considered on a case-by-case basis
 - this may not always be possible
- Missing a practical exam or assessment session
 - submit a request to the course coordinator within 5 days
 - provide documentation medical form / counsellor's letter
 - alternate arrangements will considered on a case-by-case basis
 - this may not always be possible



Grounds not Considered

- Circumstances <u>not eligible</u> for modified arrangements:
 - it was avoidable and there was opportunity to avoid it
 - it is not covered by a Disability Action Plan
 - balancing study workloads from other courses
 - personal commitments or events such as work, international travel, holidays or weddings
 - stress or anxiety normally associated with examinations, required assessment tasks or any aspect of course work
 - misreading or misunderstanding of the examination timetable
- You must be able to attend all classes and examinations.



Replacement Exams

• If your final examination is affected by medical or compassionate circumstances you may be eligible for a replacement examination

- Please consult examinations for specific policy details
 - http://www.adelaide.edu.au/student/exams/modified/replacement/



Academic Honesty Policies

- The University has strict policies prohibiting students from presenting other people's work as their own, whether that of students or from outside the University.
- You may not copy code from another student or give another student your code to copy from, unless specifically authorised to do so by a staff member.
 Your group work is authorised cooperation.
- You may not copy code from anywhere else, without permission.
- If caught, you may receive zero for the assignment, zero for the course or be expelled.
- If you don't do the work yourself, you won't be able to do it in the examination and you won't be able to do it in the workforce.

Full policy available at the university webpages.



Violations to policy

Plagiarism

 Using another person's ideas, designs, words or works without appropriate acknowledgment.

Collusion

 Another person assisting in the production of an assessment submission without the express requirement, or consent, or knowledge of the assessor.

- 1. Do not submit any work or part thereof which is not yours.
- 2. Do not submit any work for which you have received unfair assistance.

