COS20007
Object Oriented Programming

by Ong Chin Ann

100% Portfolio Assessment

Teaching staff:

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Succeeding at University

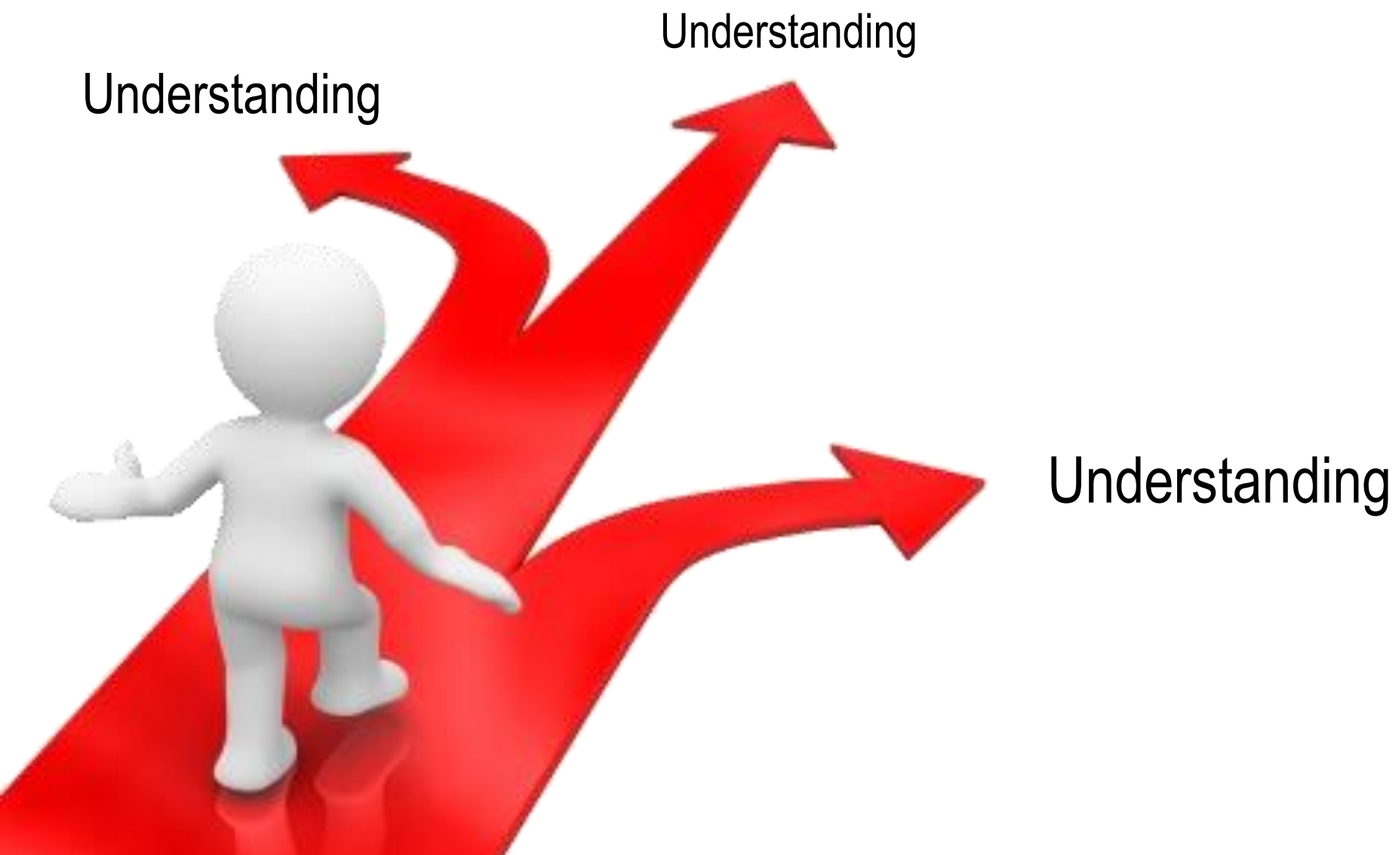
by Andrew Cain and Willem van Straten

University study is highly geared towards assessment and grades

Study is about focusing on the right thing to gain understanding

It is easy for students to focus on marks, rather than understanding

Portfolio assessment provides an alternative path



Achieve good grades by demonstrating good understanding

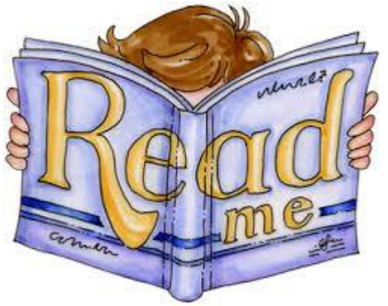
Understanding = Grades

Reap the benefits of portfolio assessment by focusing on depth of understanding

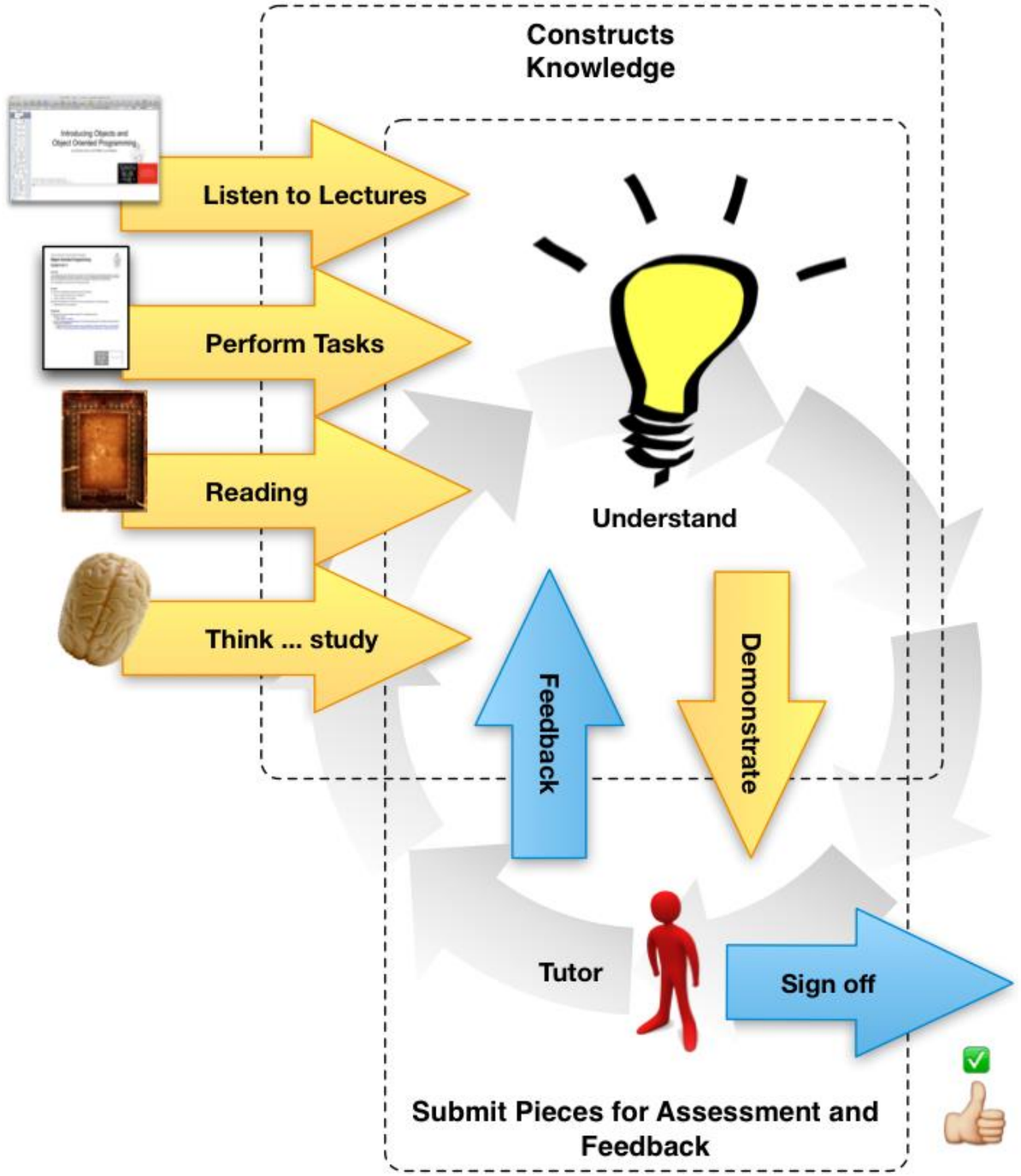
Start by understanding what you need to learn and demonstrate

Unit Learning Outcomes:

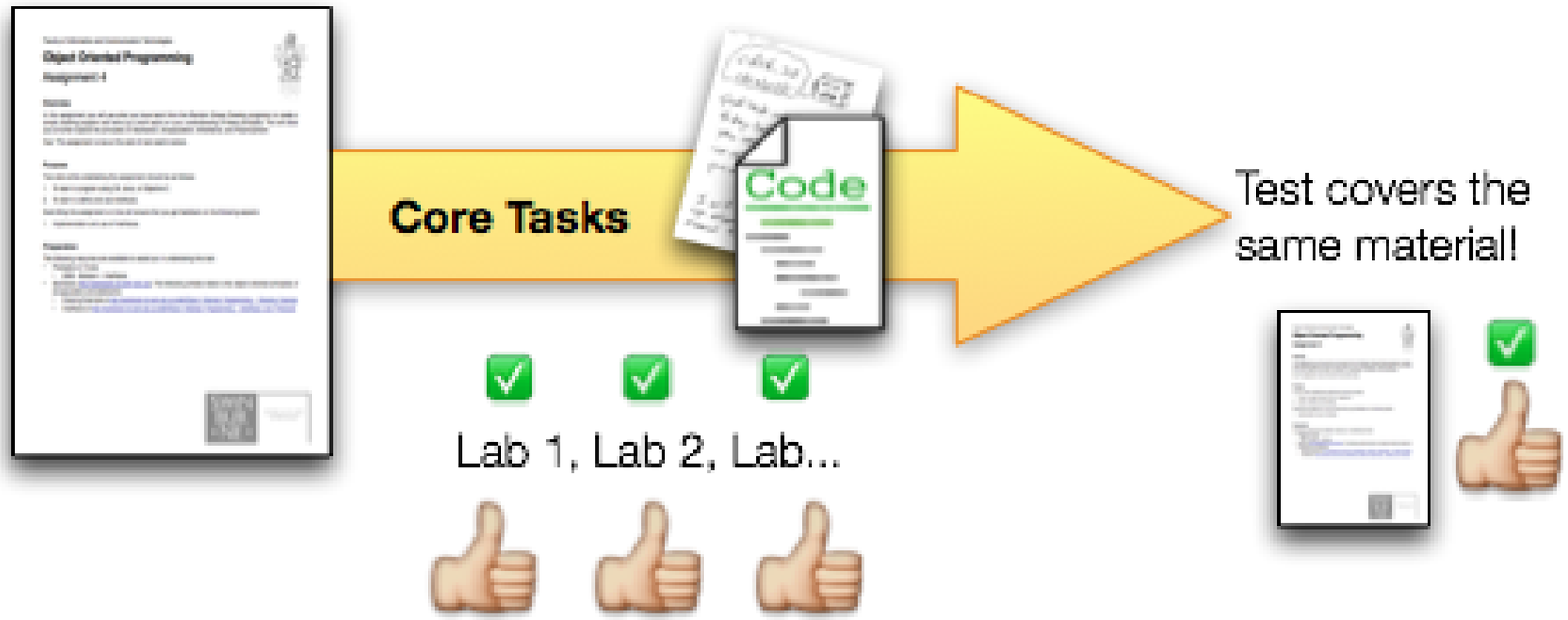
- What you are aiming to understand
- What you need to learn
- What you must demonstrate to pass



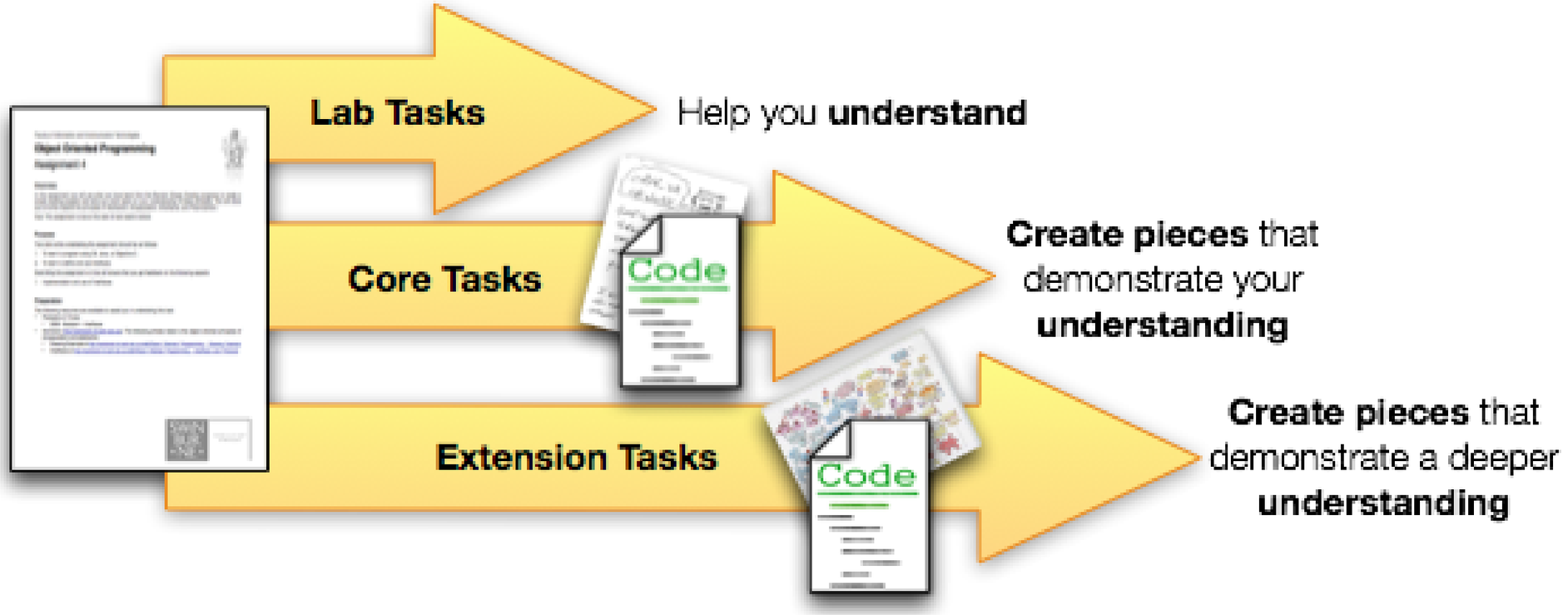
Construct knowledge from lectures, reading, exercises, discussion forums, tutor feedback, study, and other sources



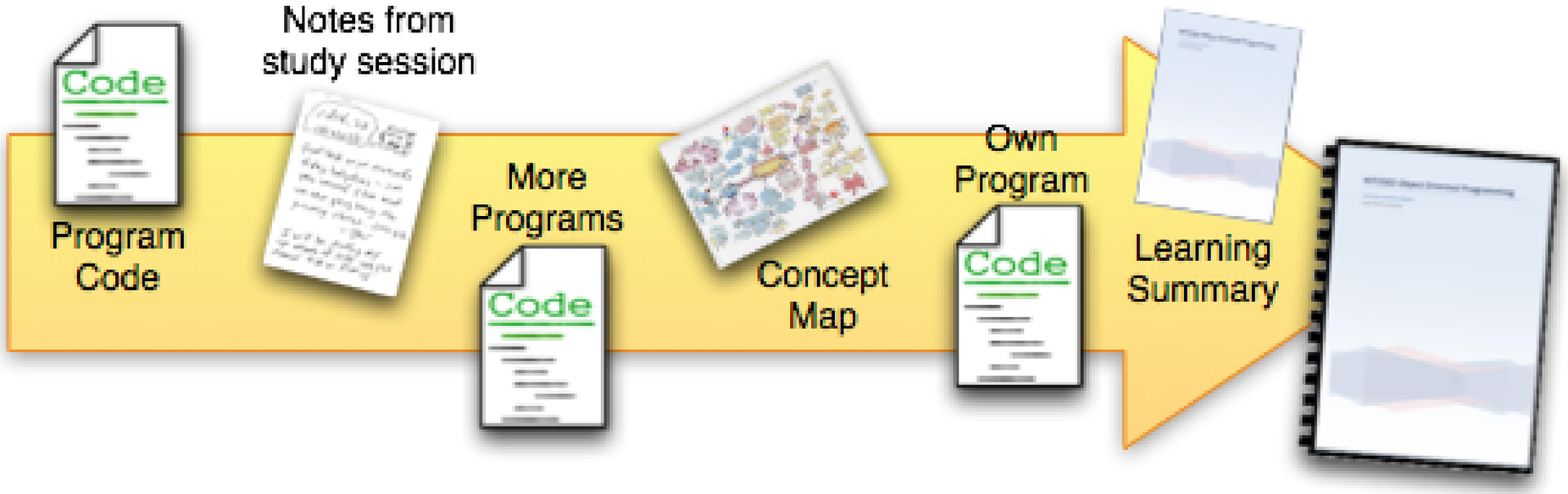
Build portfolio pieces and demonstrate your knowledge with the Test and Pass Tasks



Demonstrate deeper understanding with Credit and (High) Distinction Tasks

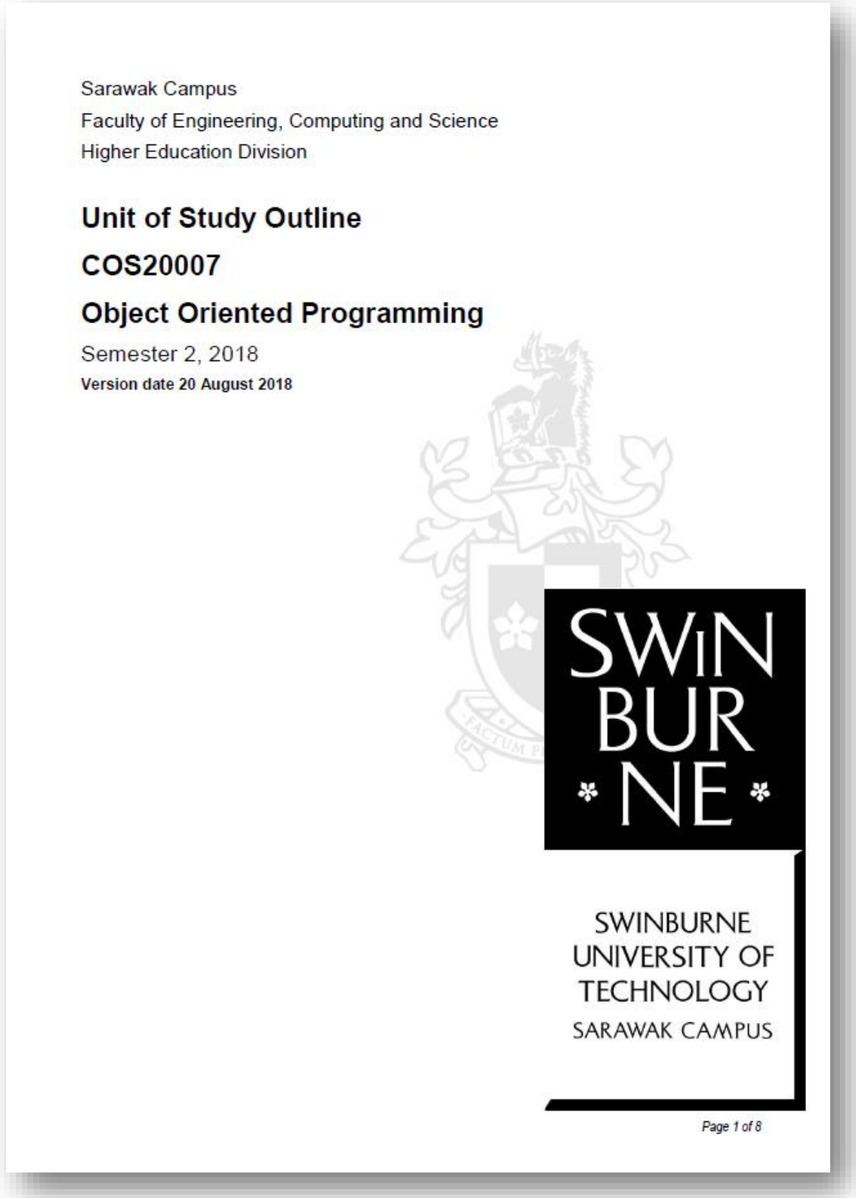


Make your portfolio by collecting and binding together the evidence you create



Work during semester is included in your portfolio!

COS20007
Let's Walk Through the Unit Outline


Sarawak Campus
Faculty of Engineering, Computing and Science
Higher Education Division

Unit of Study Outline

COS20007

Object Oriented Programming

Semester 2, 2018

Version date 20 August 2018

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SARAWAK CAMPUS

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Unit of Study Outline

Unit of study code	COS20007
Unit of study name	Object Oriented Programming
Teaching Term/Semester & Year	Semester 2, 2018
Contact Hours (hrs/wk) or total contact hours	4 hours/wk + 4 hours (tests) or 52 total hours
Pre-requisites	• COS10001 Algorithmic Problem Solving or • COS10009 Introduction to Programming or • SWE20004 Technical Software Development or • INF10016 Introduction to Programming .NET (85%)
Anti-requisites	• COS30014 Object Oriented Programming C++ • COS20011 Software Development in Java • COS30016 Programming in Java
Credit Points	12.5

Aim & Objective

Aims

This unit aims to introduce students to object oriented programming and design

Learning Objectives

After successfully completing this unit, you should be able to:

1. Explain the principles of the object oriented programming paradigm specifically including abstraction, encapsulation, inheritance and polymorphism

2. Use an object oriented programming language, and associated class libraries, to develop object oriented programs

3. Design, develop, test, and debug programs using object oriented principles in conjuncture with an integrated development environment

4. Construct appropriate diagrams and textual descriptions to communicate the static structure and dynamic behaviour of an object oriented solution

5. Describe and explain the factors that contribute to a good object oriented solution, reflecting on your own experiences and drawing upon accepted good practices.

Provisional Schedule

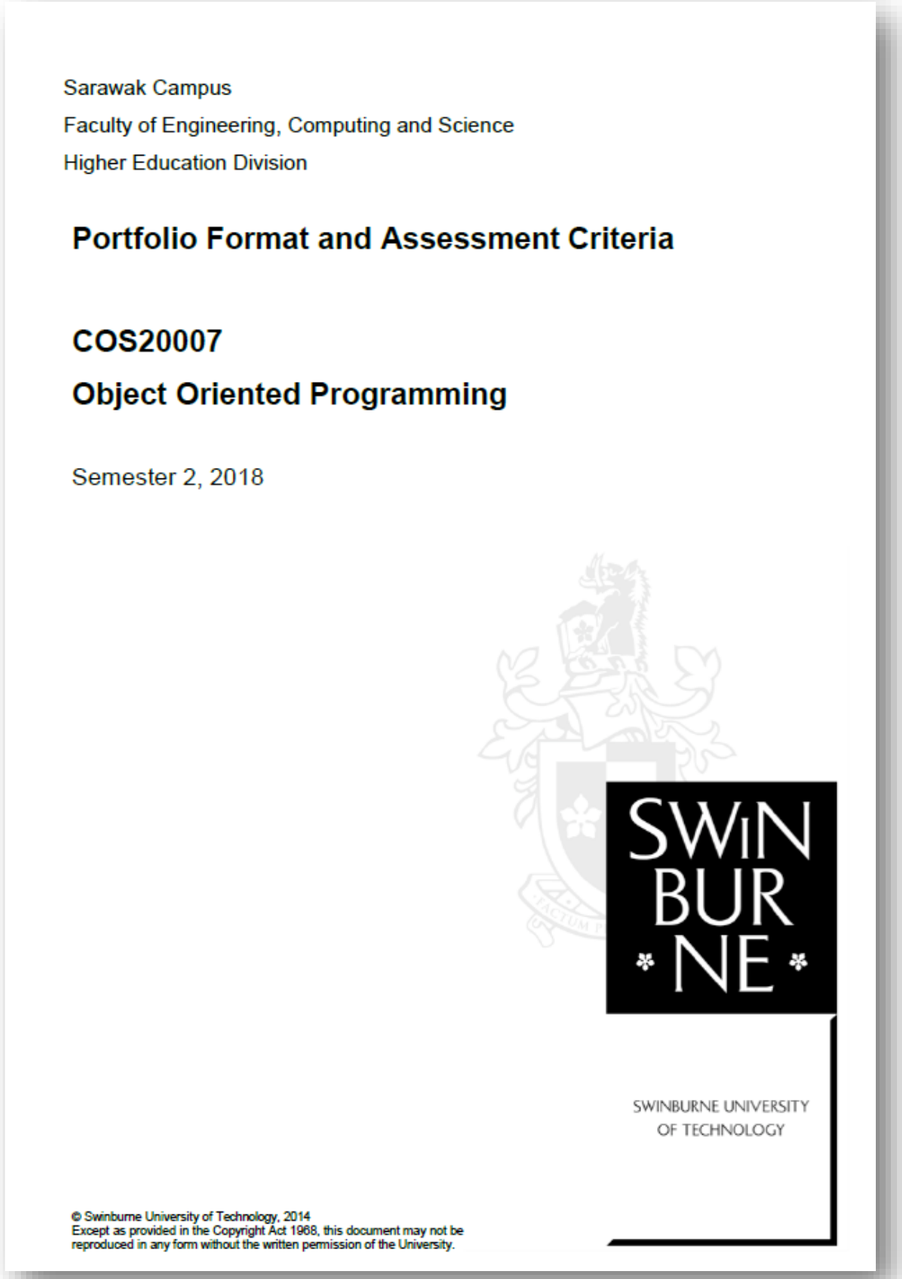
**Test on Week 6 (Saturday Morning)

Provisional Schedule

Week	Date	Teaching and Learning Activity	Assessment
1	03-09-18	Unit Overview and Introducing Objects	
2	10-09-18	Lecture and Tutorial: Unit Testing and Test Driven Development	Tutorial 1
3	17-09-18	Lecture and Tutorial: Object Collaboration	Tutorial 2
4	24-09-18	Lecture and Tutorial: Inheritance and Polymorphism	Tutorial 3
5	01-10-18	Lecture and Tutorial: UML Class and Sequence Diagrams	Tutorial 4
6	08-10-18	Lecture and Tutorial: Elements of Good Design	Tutorial 5 Semester test *
	MID-SEMESTER BREAK		
7	22-10-18	Lecture and Tutorial: Introducing C++	Tutorial 6
8	29-10-18	Lecture and Tutorial: Resource Management in C++	Resit test ** Tutorial 7
9	05-11-18	Lecture and Tutorial: Design Patterns	Tutorial 8
10	12-11-18	Lecture and Tutorial: Exceptions	Tutorial 9
11	19-11-18	Lecture and Tutorial: Portfolio Preparation and Unit Overview	Tutorial 10
12	26-11-18	Lecture and Tutorial: Event-Driven Programming	
		Portfolio Submission D/HD Portfolio Interviews	

* *Semester test will be tentatively scheduled on **Saturday** of **Week 6***
** *Resit test will be arranged and conducted between **Week 8 OR Week 9***

COS20007
Let's Walk Through the Assessment Criteria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Portfolio Format and Assessment Criteria

COS20007
Object Oriented Programming

Semester 2, 2018

SWINBURNE UNIVERSITY OF TECHNOLOGY

General Overview

- 100% of your **grade** comes from the Portfolio
- You must complete all Compulsory Assessed Pass Tasks before the due date (Week 5)
- You must pass the Semester Test in test conditions
  - Test will assess core knowledge; i.e. things you will have already done in weekly work
  - You will get another chance to pass the test (ie. 1 resit) ... do your best to pass it the first time (get it out of the way)
  - Student who did not attempt the first test will not eligible to attempt the resit.

Final Marks for this unit

Summary of Assessment Criteria

The following table shows the grades that will be awarded for successful completion of this unit. If the Pass criteria are not met satisfactorily, then the final result will be between 0 and 44, resulting in a fail result for this unit. Where a portfolio is not submitted you will be assigned a grade between 0N and 44N based upon the amount of work marked as complete.

Pass				Credit			Distinction			High Distinction			
(D–) 50	(D-) 53	(D) 55	(D+) 57	(C–) 63	(C) 65	(C+) 67	(B–) 73	(B) 75	(B+) 77	(A–) 85	(A) 90	(A+) 95	(A*) 100
Portfolio includes: ▪ Learning Summary Report. ▪ Semester Test at a Pass standard ▪ Selection of Pass tasks to meet the stated pass requirements. ▪ More than 50% of Pass tasks are signed off as Complete				In addition to including the material required for Pass, the portfolio includes: ▪ Selection of Pass and Credit tasks to meet the stated credit requirements. ▪ All Pass Tasks signed off as complete.			In addition to including the material required for Credit, the portfolio includes: ▪ All Credit Tasks signed off as Complete ▪ Code for your Custom Program ▪ Design report for your Custom Program			In addition to including the material required for Distinction, the portfolio includes: ▪ Research report ▪ Data collected from performing the research Higher grades will be awarded where the research does a good job of demonstrating analysis and providing a clear link back to the principles of object-oriented programming. A good report will provide the reader with insights about programming in general, as well as details specific to the question you are answering.			
Pass tasks and Semester Test				Pass and Credit tasks			Pass and Credit tasks, and Custom Program			Pass and Credit tasks, Custom Program and Research Report			

Extracted from *unit Portfolio Format & Assessment Criteria page 11*

Present your portfolio for assessment, where it is graded... not marked!

Pass -- Practices --	• Complete 5 Assessed Pass Tasks + Pass Test + Pass Task 13 + Pass Task 14 (LSR*)
Credit -- Understanding --	• Fulfil all Pass requirements + • Complete 2 Credit Tasks
Distinction -- Application --	• Fulfil all Credit requirements + • Complete all (3) Distinction Tasks and Custom Program
High Distinction -- Research --	• Fulfil all Distinction requirement + • Complete 1 HD Tasks aka research paper / report

** LSR – Passable Learning Summary Report*

Assessments	Release Week	Due Week	Points	Pass	Credit	Distinction	High Distinction
Pass Task 3	1	5	5	Complete	Complete	Complete	Complete
Pass Task 7	2	5	3	Complete	Complete	Complete	Complete
Pass Task 8	2	5	2	Complete	Complete	Complete	Complete
Pass Task 10	3	5	6	Complete	Complete	Complete	Complete
Pass Task 12	4	5	4	Complete	Complete	Complete	Complete
Test	6	6	25	> 15 points	> 15 points	> 15 points	> 15 points
Pass Task 13	10	10	20	> 10 points	> 10 points	> 10 points	> 10 points
Pass Task 14 (LSR)	11	12	5	Complete	Complete	Complete	Complete
Credit Task 1	5	7	2		Complete	Complete	Complete
Credit Task 2	7	9	3		Complete	Complete	Complete
Distinction Task 1	5	7	3			Complete	Complete
Distinction Task 2	8	9	2			Complete	Complete
Distinction Task 3	10	11	2			Complete	Complete
Custom Program		13	8			Complete	Complete
HD Task	10	13	10				Complete
Final Portfolio	11	13		Complete	Complete	Complete	Complete
Accumulated Points > 50				Fulfilled	Fulfilled	Fulfilled	Fulfilled
Accumulated Points > 60					Fulfilled	Fulfilled	Fulfilled
Accumulated Points > 70						Fulfilled	Fulfilled
Accumulated Points > 80							Fulfilled
Total			**100**	**Pass**	**Credit**	**Distinction**	**High Distinction**

Scenarios

Assessment Items	**Very Good**	**Good**
Assessed Tasks (Total)	20	20
Test	24	22
Pass Task 13	18	15
Pass Task 14	5	4
CT1	2	2
CT2	3	3
DT1	2	2
DT2	2	1
DT3	2	1
Custom Program	6	5
HD	5	
Accumulated Points	**89**	**75**
Final Marks in Transcript (*All point will be rounded down to nearest mark i.e. X7, X5, X3, X0*)	**87**	**75**
Grade	**HD**	**D**
Reason		

Scenarios

Assessment Items	**Very Good**	**Good**	**Above Average**	**Average**
Assessed Tasks (Total)	20	20	20	20
Test	24	22	22	20
Pass Task 13	18	15	15	15
Pass Task 14	5	4	4	4
CT1	2	2	2	2
CT2	3	3	3	2
DT1	2	2	2	
DT2	2	1	1	
DT3	2	1	1	
Custom Program	6	5		
HD	5			
Accumulated Points	**89**	**75**	**70**	**63**
Final Marks in Transcript (*All point will be rounded down to nearest mark i.e. X7, X5, X3, X0*)	**87**	**75**	**65**	**63**
Grade	**HD**	**D**	**C**	**C**
Reason			DT not counted (66)	

Scenarios

Assessment Items	Very Good	Good	Above Average	Average	Average	Below Average	Passable
Assessed Tasks (Total)	20	20	20	20	20	20	20
Test	24	22	22	20	20	19	16
Pass Task 13	18	15	15	15	15	15	13
Pass Task 14	5	4	4	4	1	4	3
CT1	2	2	2	2	1	2	
CT2	3	3	3	2	2		
DT1	2	2	2				
DT2	2	1	1				
DT3	2	1	1				
Custom Program	6	5					
HD	5						
Accumulated Points	**89**	**75**	**70**	**63**	**59**	**60**	**52**
Final Marks in Transcript (*All point will be rounded down to nearest mark i.e. X7, X5, X3, X0*)	**87**	**75**	**65**	**63**	**57**	**57**	**50**
Grade	**HD**	**D**	**C**	**C**	**P**	**P**	**P**
Reason			DT not counted (66)		Poor LSR	CT not counted (58)	Could have work harded in test / PT13

Scenarios

Assessment Items	Very Good	Good	Above Average	Average	Average	Below Average	Passable	Very Poor	Fail PT13	Fail Test
Assessed Tasks (Total)	20	20	20	20	20	20	20	18	18	16
Test	24	22	22	20	20	19	16	16	18	10
Pass Task 13	18	15	15	15	15	15	13	10	8	
Pass Task 14	5	4	4	4	1	4	3	2	4	
CT1	2	2	2	2	1	2				
CT2	3	3	3	2	2					
DT1	2	2	2							
DT2	2	1	1							
DT3	2	1	1							
Custom Program	6	5								
HD	5									
Accumulated Points	**89**	**75**	**70**	**63**	**59**	**60**	**52**	**46**	**48**	**26**
Final Marks in Transcript (*All point will be rounded down to nearest mark i.e. X7, X5, X3, X0*)	**87**	**75**	**65**	**63**	**57**	**57**	**50**	**44 (Failed)**	**44 (Failed)**	**26 (Failed)**
Grade	**HD**	**D**	**C**	**C**	**P**	**P**	**P**	**N**	**N**	**N**
Reason			DT not counted (66)		Poor LSR	CT not counted (58)	Could have work harded in test / PT13	Accumulated Point < 50	Accumulated Point < 50 & Failed PT13	Failed Test & Resit

Tasks' Deadline

Every tasks has it due date.
Late submission will be penalized (up to 7 days overdue).
Submission 7 days after its due date will not be assessed.

Submission: You are to demonstrate your work to your tutor and feedback will be provided. You are to submit your work through the Blackboard link after the tutor has approved and signed off your work

We Penalize Both Plagiarism **Committer** & **Contributors** !!!

i. Swinburne University of Technology's definition of plagiarism:

Plagiarism is the action or practice of taking and submitting or presenting the thoughts, writings or other work of someone else as though it is your own work. Plagiarism includes any of the following, without full and appropriate acknowledgment to the original source(s):

(i) The use of the whole or part of a computer program written by another person;

(ii) the use, in essays or other assessable work, of the whole or part of a written work from any source including but not limited to a book, journal, newspaper article, set of lecture notes, current or past student's work, any other person's work, a website or database;

(iii) the paraphrasing of another's work;

(iv) the use of musical composition, audio, visual, graphic and photographic models,

(v) The use of realia, that is objects, artefacts, costumes, models and the like.

Plagiarism also includes the preparation or production and submission or presentation of assignments or other work in conjunction with another person or other people when that work should be your own independent work. This remains plagiarism whether or not it is with the knowledge or consent of the other person or people. It should be noted that Swinburne encourages its students to talk to staff, fellow students and other people who may be able to contribute to a student's academic work but that where independent assignment is required, submitted or presented work must be the student's own.

Enabling plagiarism contributes to plagiarism and therefore will be treated as a form of plagiarism by the University. Enabling plagiarism means allowing or otherwise assisting another student to copy or otherwise plagiarise work by, for example, allowing access to a draft or completed assignment or other work.

The information outlined in this section above is covered in more detail in Swinburne Sarawak's Student Academic Misconduct Regulations 2012 found at http://www.swinburne.edu.au/policies/regulations/academicmisconduct.html

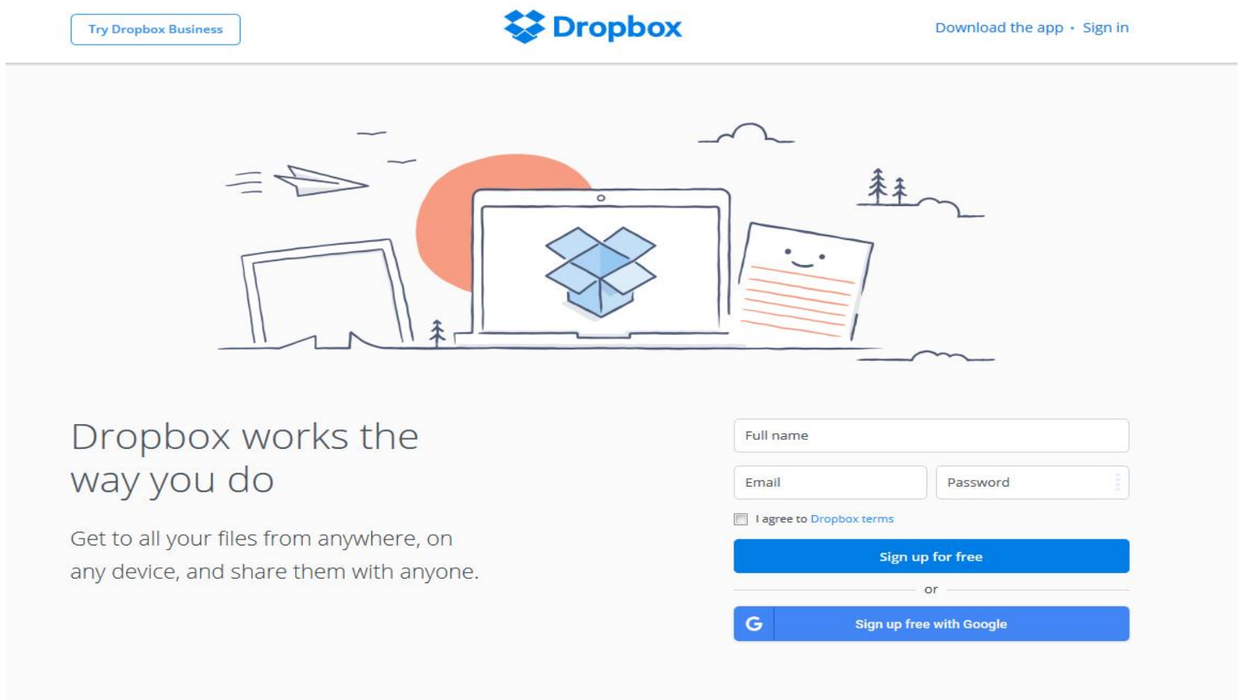
Students must be familiar with the regulations found at Student Administration > Assessment > Misconduct and Plagiarism at http://www.swinburne.edu.au/student-administration/assessment/misconduct.html

***Extracted from** unit outline page 6*

BACK UPS YOUR FILES

Use the cloud storage for file backups

Secure your works with Dropbox



Will you be able to make the most of this portfolio unit?