

INFS 2044

Week 1
Course Organisation

Learning Objectives

- Understand how this course is organized
- Understand the expectations
- Know the assessments



About Me

Derek Munneke

Chief Technical Officer, NextFaze
Casual Course Coordinator, UniSA
Captain of CAPTology, Life

Derek.Munneke@unisa.edu.au



Teaching Team

- Mr Mateusz Kowalski
- Ms Siaw (Mei) Sim
- Mr Dhenesh Subramanian
- Ms Amali Weerasinghe



Course Aim & Objectives

- To design and implement a software solution given a set of requirements.
- Describe the process to convert a set of requirements to a high-level design
- Explain the processes of composition, decomposition and abstraction
- Discuss the need for verifiable, validatable and implementable designs
- Transform a design into a viable implementation
- Justify the implementation matches the design
- Use the appropriate tools to support the design process



Learning Arrangements

Weeks 1-5

1 hour lecture (online)

2x 2 hour workshops (face to face)

Weeks 6-9

INFS2045 System Design Studio

Weeks 10-13

2 hour lecture (online)

2 hour practical (face to face)



Arrangements for External Students

- External students will work through the workshop materials in their own time each week
- There will be two sessions for external students to discuss their work with a tutor (Mateusz)
 - Times to be arranged
- Separate discussion forum for external students



Topics

Week	Dates	Topic
1	01 - 7 March	Software Design Process
2	08 - 14 March	Architecture and Decomposition
3	15 - 21 March	Modules and Boundaries
4	22 - 28 March	Implementation Design
5	29 March - 4 April	Patterns
6 - 9	05 April - 16 May	INFS 2045 System Design Studio
10	17 - 23 May	Writing Maintainable Code 1
11	24 - 30 May	Writing Maintainable Code 2
12	31 May - 6 June	Testing
13	07 - 13 June	Refactoring

Individual Expectations

- You will manage your own time
- You will complete the learning tasks associated with each module
- You will research independently and think critically
- You will independently investigate and select suitable software tools that support your work



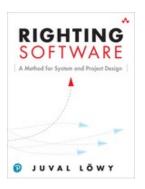
Cooperative learning

- Learn collaboratively
- Discuss the topics
- Leverage the individuals in your team for workshops
- Ask for help
- Ask early
- Ask your workshop tutor

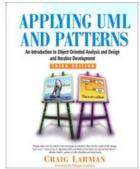


Resources

















Assessments

- Continuous Assessment [20%]
 - 9 Quizzes
 - Test your knowledge of the concepts presented each week
- Assignment 1 [40%]
 - Group work (4 students) 30% + 10% individual contributions
 - Due Monday 12 April 2021 (first Monday of mid-break)
- Assignment 2 [40%]
 - Programming (individual assignment)
 - Due Monday 14 June 2021



Late Penalty

- Late submissions are not accepted in this course
- Late submissions receive 0 marks
- Zero marks for an assignment makes it very difficult to pass this course.





University of South Australia

Questions?