# Course Outline

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## Course Details

| | |
|---|---|
| **Course Code** | COMP9322 |
| **Course Title** | Service Oriented Architectures |
| **Units of Credit** | 6 |
| **Course Website** | http://cse.unsw.edu.au/~cs9322 (http://cse.unsw.edu.au/~cs9322) |
| **Handbook Entry** | http://www.handbook.unsw.edu.au/postgraduate/courses/current/COMP9322.html (http://www.handbook.unsw.edu.au/postgraduate/courses/current/COMP9322.html) |

## Course Summary

The Service Oriented Architecture (SOA) concept is rapidly changing the way modern enterprise systems are designed, built and managed. An SOA is not just a technical architecture but a revolutionary way to design an enterprise environment that features cross-platform compatibility, agility and cost-efficiency. An SOA can be realised using a number of technologies, amongst them Web services are considered to be the key technical enabler of SOA.

It is fast becoming one of the most important skills for an IT graduate to be able to understand the role of an SOA in different contexts and to articulate the motivation behind service-based technologies and their practical implications in terms of engineering complex software systems and automating business processes.

This module aims to provide students with a deep understanding of SOA, service-orientation paradigm, and Web services as an implementation technology.

We also aim to train the students to develop the ability to appreciate the necessity for tracking technology development and become a self-learner and an insightful predictor of future developments in this area.

## Course Aims

After completing this course, students will:

- Describe different architectural design approaches and their role in enterprise application integration
- Apply the concept of business process in a concrete setting
- Be competent in designing and developing applications using SOA concepts and related technologies

## Course Timetable

The course timetable is available here (/COMP9322/16s2/timetable) .

## Student Learning Outcomes

After completing this course, students will:

- Describe different architectural design approaches and their role in enterprise application integration
- Apply the concept of business process in a concrete setting
- Be competent in designing and developing applications using SOA concepts and related technologies

This course contributes to the development of the following graduate attributes:

| **Graduate Capability** | **Acquired in** |
|---|---|
| scholarship: understanding of their discipline in its interdisciplinary context | attending lectures |
| scholarship: rigorous in their analysis, critique, and reflection | participating Q/A, messageboard discussions, online quizzes (reviews of lecture topics), peer assessment |
| scholarship: able to apply their knowledge and skills to solving problems | practical exercises (labs and assignments) |
| scholarship: ethical practitioners | in all class activities, messageboard discussions, understanding what is plagiarism in doing your work, be respectful of others in the class |
| scholarship: capable of effective communication | messageboard discussions, group work in assignments, demonstration/presentation |

## Assumed Knowledge

Before commencing this course, students should:

- Have theoretical understanding of Web applications and Web-based architectures
- Have practical skills to develop a Web application
- Have sound knowledge of Java programming

These are assumed to have been acquired in the course COMP9321

## Teaching Rationale

This course is taught the way it is because we believe in structured learning, also learning by doing. We provide timely feedback for learning via small, step-by-step assignments that gradually build up knowledge and practical skills.

## Teaching Strategies

- Lectures ... introduce concepts, show examples
- Lab Work ... introduce technology required for the assignments
- Assignments .. allow students to solve significant problems

## Assessment

The assessment consists of the following components:

- 40% on laboratory work: individual and group assessment. This component assesses the practical-skills-and-tools level learning outcomes. The assessment activities include two programming assignments. Each assignment is designed for students to explore each main technology from the lectures. Labs and assignments are released roughly every two weeks to encourage students to progressively develop their skills.
- 50% formal written exam: individual assessment. This component is going to assess the various facts-and-knowledge level learning outcomes. The exam is a mixture of multiple choice questions and written answer questions.
- 10% online quizzes

Final Mark = Lab Work + Formal Exam + Quiz

(Note: The weight of the practical work has been revised upwardly after the Week 1 discussion with the class)

## Academic Honesty and Plagiarism

**Plagiarism** is defined as (https://student.unsw.edu.au/what-plagiarism) *using the words or ideas of others and presenting them as your own* . UNSW and CSE treat plagiarism as academic misconduct, which means that it carries penalties as severe as being excluded from further study at UNSW. There are several on-line sources to help you understand what plagiarism is and how it is dealt with at UNSW:

- Learning Centre: Plagiarism and Academic Integrity (http://www.lc.unsw.edu.au/plagiarism/index.html)
- MyUNSW: Plagiarism (https://student.unsw.edu.au/plagiarism) and Academic Misconduct (https://www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf)
- CSE: Addendum to UNSW Plagiarism Guidelines (http://www.cse.unsw.edu.au/~chak/plagiarism/plagiarism.html)
- CSE: Yellow Form (http://www.cse.unsw.edu.au/people/studentoffice/policies/yellowform.html) (whose terms you have agreed to)

Make sure that you read and understand these. Ignorance is not accepted as an excuse for plagiarism.

## Course Schedule

Schedule of topics, organised by week ...

Refer to the link on the menu item on the course homepage.

## Resources for Students

There is no textbook for this course. Recommended reading lists will be provided through the online Q/A (messageboard) throughout the semester.

## Course Evaluation and Development

This course is evaluated each session using the CATEI system. The feedback from 16s1 offering was generally positive. In particular, many found the assignments were practical, well-designed and were relevant to the course topic. Some commented that the assignments should have more weight than the final exam. I have considered that and slightly adjusted the weighting of the assessment items this semester.

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