



Course

# Software Service Design and Engineering

COMP9322

6 Units of Credit

## Overview

The notion of “software as a service” (SaaS) plays a critical role in building distributed, scalable application platforms. This course arms students with the knowledge and expertise to design and engineer services using modern Web technologies. Based on Service Oriented Architecture (SOA) principles, students will be exposed to various design and implementation methodologies, including microservices and their associated design patterns, and API design and management. In addition, this course will strengthen students’ data modeling expertise, covering topics on semantic modelling of both simple and complex structures, and its usage in business analysis. The course will also describe the technical standards and technologies that support semantic data modelling. After completing this course, students will be able to (i) describe different architectural design approaches and their role in engineering software. (ii) apply Web service composition techniques in a concrete setting, (iii) be competent in designing, managing, documenting, testing and securing APIs, (iv) understand techniques for semantic modelling of simple and complex structures, as well as their associated technical standards and technologies.

**Faculty**

Faculty of Engineering

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**School**

School of Computer Science and Engineering

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**Study Level**

Postgraduate

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**Offering Terms**

Term 3

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**Campus**

Kensington

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**Delivery Mode**

Fully on-site

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**Indicative contact hours**

3

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**Timetable**

[Visit timetable website for details](#)

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## **Conditions for Enrolment**

Prerequisite: COMP9321.

## Course Outline

To access course outline, please visit:

[COMP9322 Course Outline](#)

## Fees

Commonwealth Supported Students \$1191

Domestic Students \$4470

International Students \$5910

### DISCLAIMER

Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the [fee website](#).

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.

## **Pre-2019 Handbook Editions**

Access past handbook editions (2018 and prior)

[Pre-2019 Handbook Editions](#)

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Authorised by Deputy Vice-Chancellor (Academic)

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