



Course

# Foundations of Computer Science

COMP9020

6 Units of Credit

## Overview

Scope: \* Mathematical methods for designing correct and efficient programs.\*  
Mathematics for algorithm analysis.\* Logic for proving and verification.Topics: \*  
Introduction to set and relation theory\* Propositional logic and boolean algebras\*  
Induction, recursion and recurrence relations\* Order of growth of functions.\*  
Structured counting (combinatorics)\* Discrete probability\* Graph theory\* Trees for  
algorithmic applications

**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 1, Term 2, Term 3

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**Campus**

Kensington

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**Delivery Mode**

Fully on-site

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**Indicative contact hours**

4

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**Timetable**

[Visit timetable website for details](#)

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## **Course Outline**

To access course outline, please visit:

[COMP9020 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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