

# ELEC 2019 WORKSHOP ON REASONING ABOUT PROGRAMS

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**Credit Points** 10

**Legacy Code** 301347

**Coordinator** Richard Yang ([https://directory.westernsydney.edu.au/search/name/Richard Yang/](https://directory.westernsydney.edu.au/search/name/Richard%20Yang/))

**Description** This subject will be offered at Engineering Innovation Hub - Hassall St, Parramatta campus. The goal of this subject is to develop skills in writing precise specifications of software programs and to translate these specifications into correct implementations. Further methods for reasoning about programs are introduced, including methods for reasoning about termination, program refinement and data refinement. Students learn to apply these ideas to structure their thinking about programs as well as to build a web application within a project context.

**School** Eng, Design & Built Env

**Discipline** Computer Engineering

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 2 subject

**Pre-requisite(s)** ELEC 2018

## **Assumed Knowledge**

Discrete mathematics, particularly predicate calculus  
Programming in procedural language (C, Python or Java)  
Competence with Unix commands, and interacting with the operating system.