

Te Arorau me te Mahi Rorohiko Tāura

Postgraduate Logic and Computation



Logic and Computation can help you develop conceptual and analytical skills and a deeper theoretical understanding. You'll examine the structure, design and limitations of symbolic representations and procedures in human thought and computer software.

Postgraduate study in Logic and Computation combines a strong core of advanced courses in Computer Science and Philosophy, alongside Linguistics, Logic and Computation and Mathematics to explore the development of computer languages.

Some of the courses available in this subject include:

- > Philosophical Logic
- > Graph Theory and Combinatorics
- > Semantics and Pragmatics
- > Intelligent Software Agents
- > Data Mining and Machine Learning
- > Computational Complexity
- > Formal Syntax
- > Mathematical Logic

Choosing your supervisor

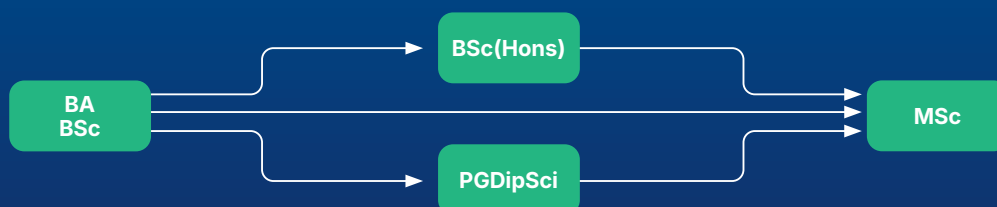
Supervisors can usually only take a small number of students, so make sure you talk to them sooner rather than later.

Choose an area you feel passionate about. Undertaking research involves successes as well as challenges, so choosing a topic you are genuinely interested in will help you overcome challenges and get through the tough times. Ensure you're compatible with your supervisor. Ask questions, seek advice and share your ideas with academic staff to find out their research interests, and whether you would be a good fit with their current projects.

Scholarships

You can apply for a range of scholarships when you apply for postgraduate study in Science.

auckland.ac.nz/science-scholarships



Career opportunities

Logic and Computation can be useful for any career requiring skills in analysis, precise and creative thinking, and the ability to communicate clearly.

This is a rare and versatile combination of skills that is highly valued and sought after in the business world. You could also be in a position to have a career in research in universities or the IT industry.

Every industry is becoming more and more dependent on computing technology. With demonstrated skills in analytical thinking, communication and computing. Our graduates can successfully navigate this ever-expanding field with demonstrated analytical thinking, communication and computing skills.

Jobs related to Logic and Computation:

- › Business, systems or security analyst
- › Cloud systems or software engineer
- › Communications and marketing
- › Computer consultant
- › Data, e-commerce solutions, software, information architect
- › Database developer or administrator
- › Digital designer
- › Front-end, game, systems or web developer
- › Project manager

This subject is available in:

- › Bachelor of Science (Honours)
- › Postgraduate Diploma in Science
- › Master of Science
- › Master of Mathematical Modelling
- › Doctor of Philosophy



Find out more about how your degree will be structured and what courses you need to take at

auckland.ac.nz/science/pg-logic-comp

Applications close on 8 December.



Kuhua ki tō mātou hapori, ā, Kimihia tōu Pūtaiao.
Join our community and find your Science.



Disclaimer: The information in this document is a general guide only for students and subject to alteration. All students enrolling at the University of Auckland must consult its official Calendar, to ensure that they are aware of and comply with all regulations, requirements and policies. [2026]

Have any questions?
Contact the Student Hub

auckland.ac.nz/student-hubs