Computing technology permeates our lives, and with that comes the demand for specialists to imagine, develop and maintain that technology. As a Computer Science student at the University of Auckland, you’ll be prepared to meet that demand.

What is Computer Science?

Computer technology, it seems, is everywhere in today’s world. It has become an ever-growing part of human life, affecting many aspects of a person’s day. Computer scientists have an impact on how our society advances by developing and maintaining these systems: whether it be for our home, work, learning or entertainment environments.

We’ll cover:

- How information is stored in computers (data structures and management)
- How computers are told what to do (algorithms and programming languages)
- How systems work (computer architecture and system software)
- How computers are connected (data communications, networks and hypermedia)
- Some ways in which computers can be used (applications)
- What computers can do, and their limitations (computability and complexity theory)

If you’re interested in a relevant and dynamic field of study, and working in an industry where there is a real demand for expertise, then Computer Science is for you.

What you will learn

Studying Computer Science gives you an understanding of the conceptual building blocks of computers, software, and communications between computers. You’ll tackle topics as diverse as algorithms, artificial intelligence, programming languages and networks, and you’ll develop sought-after skills in logical thinking, problem solving and analysis.

You don’t need to have taken any particular subject at high school to study Computer Science with us, but digital technologies, mathematics and physics provide helpful background knowledge.

Choosing a subject

With so many options it’s sometimes hard to choose what you want to study, but we’ve got you covered. You can study a double major with our Bachelor of Science to gain a broader base of skills and knowledge.

Complementary majors include:

- Management
- Logic and Computation
- Mathematics
- Physics
- Psychology
- Statistics

Mātai Pūtaiao Rorohiko
Undergraduate Computer Science

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