Do you want to study Computer and Information Sciences?

Study computer and information sciences with us and choose from a wide range of programmes that prepare you for careers spanning everything from telecommunications to education, and healthcare to finance.

"Computers are great because when you're working with them you get immediate results that let you know if your program works. It's feedback you don't get from many other things."

– Bill Gates

TOP 50
WORLDWIDE
Young University

Sample study plan

Foundation Studies Programme

Delivered by UP International College New Zealand

Duration:
- 6 months
- 8–9 months
- 12 months

The AUT Certificate in Foundation Studies ensures you not only meet AUT undergraduate course entry requirements but that you are fully prepared for the challenges of degree-level study.

The UP English Language Test (UPELT) has been developed to help provide prospective students with obtaining their English language scores prior to enrolment.

Bachelor of Computer and Information Sciences

Delivered by Auckland University of Technology

Duration: 3 years

Majors

- Data Science
- Digital Services
- Networks and Cybersecurity
- Software Development

You can study Artificial Intelligence as a minor in the Bachelor of Computer and Information Sciences. The global demand for AI talent has doubled in the last two years, and the world currently only has 50% of the AI experts it needs.

Registered in Computer and Information Sciences

Career opportunities
- Data analyst
- Data scientist
- Data engineer
- Database administrator
- Information analyst and designer
- IT support role, IT service supervisor
- Solutions architect
- IT security analyst
- Network analyst
- Network designer
- Systems and network administrator
- Computer programmer
- Mobile/app developer
- Software developer, engineer or tester
- Systems analyst or architect
- Technology consultant
- Web developer
- Project manager

To find out more about AUT Undergraduate and Postgraduate study options, go to
https://www.aut.ac.nz/study/study-options/engineering-computer-and-mathematical-sciences/courses/bachelor-of-computer-and-information-sciences

Employability

According to Ministry of Business Innovation & Employment, Software developers, particularly those with some experience, are in high demand. There is a shortage of software developers in New Zealand, and continuing growth in job vacancies.

Pay for software developers varies depending on skills, experience and where you work, with pay in Auckland being higher.

Junior software developers usually earn

$50k–$80k per year

Intermediate software developers usually earn

$80k–$130k per year

Senior software developers can earn

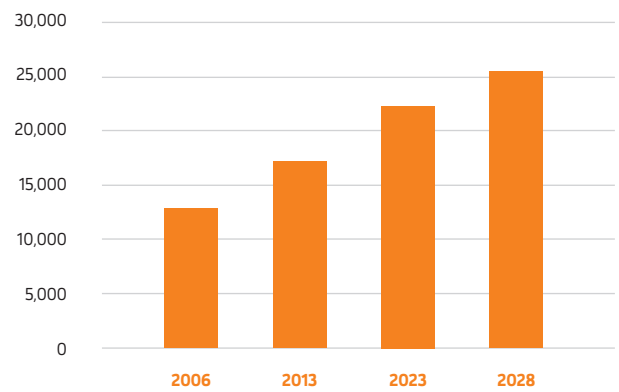### $110k–$180k per year

Team leaders and managers can earn

$120k–$200k per year

Source: Recruit I.T., 'Technology and Digital Salary Update Auckland', July 2021; and Recruit I.T., 'Technology and Digital Salary Update Wellington', July 2021. Find out more at careers.govt.nz

Employment chart

Source: Statistics NZ Census and MBIE projections

There has been a strong growth in the number of software developers employed in recent years, resulting in almost a doubling of employment from 2006 to 2013. There is also strong projected employment growth of around 4.4% per year from 2018–23 and 2.4% per year out to 2028.

As a result, analyst programmer, developer programmer, software engineer and other software developers or related jobs appear on 'Tier 1 role eligible for straight to residence' Green List 2022. This means the Government is actively encouraging skilled software developers from overseas to work in New Zealand. Find out more at immigration.govt.nz

Rushit J.Patel

Full Stack Software Engineer, ezyVet

Graduate, Bachelor of Computer and Information Sciences in Software Development

"The first year of the computing degree offered a sample of the pathways I could follow. This was great as I learned a lot of base knowledge about the IT industry that I could take with me in my career. In the second and third years, I specialised in software development. The courses in that pathway were geared towards learning practical skills, which has proven to be very useful now that I'm working in the software industry."

TOP **1%** UNIVERSITIES WORLDWIDE

#1 IN AUSTRALASIA FOR **GLOBAL RESEARCH IMPACT**

5 OUT OF 5 **EMPLOYABILITY** QS STARS 2020–22

Times Higher Education (THE) World University Rankings 2023 and QS World University Rankings 2023

Overview

Bachelor of Computer and Information Sciences

Why choose Computer and Information Sciences?

Study computer and information sciences with us and choose from a wide range of programmes that prepare you for careers spanning everything from telecommunications to education, and healthcare to finance.

The Institute of IT Professionals NZ (IITP) accredits our Bachelor of Computer and Information Sciences as meeting the Seoul Accord.

You benefit from our outstanding facilities and industry connections, including our ICT and Engineering Careers Fair where you can meet representatives from New Zealand's biggest and most exciting companies. Pair this with the industry research project in your final year, and you have the perfect foundation to launch your career in computer and information sciences.

Our state-of-the-art Engineering, Computer and Mathematical Sciences building has unique design features that mean it can be used as a teaching tool and 'living lab' where students can get hands-on experience.

IT INDUSTRY ACCREDITED
IT Professionals NEW ZEALAND
DEGREE ACCREDITED BY IT PROFESSIONALS NEW ZEALAND

What you'll learn

Year 1

You'll study six core courses that provide foundation knowledge required for the degree. You also take the first course for your chosen major(s).

Year 2 & 3

You specialise in your chosen major(s), and develop strong technical knowledge in IT, creative problem-solving skills and the ability to analyse, design and maintain IT solutions. In Year 2, you may also take papers towards a chosen minor. In Year 3, you work on a real-life research and development project relevant to your major. The degree is flexible enough to enable you to specialise in more than one computing discipline, or to take a major or minor from outside computing.

You choose:

• A Bachelor of Computer and Information Sciences major (120 points), and

• One of the following options:

 • A second major (120 points) [2]; or

 • A first minor (60 points) and a second minor (60 points) [2]; or

 • A minor (60 points) and elective papers (60 points) [2]

AUT Certificate in Foundation Studies

Programme type	Fast-track	Standard	Standard Plus	Foundation Connect
Duration	6 months	8–9 months	12 months	6 months
Tuition fees*	$18,750 NZD	$23,250 NZD	$29,900 NZD	$15,990 NZD
Resource fee	$800 NZD	$800 NZD	$800 NZD	$800 NZD**
Exam fee	$350 NZD	$350 NZD	$350 NZD	$350 NZD**
Application fee	$400 NZD	$400 NZD	$400 NZD	$400 NZD**
2023 Start dates (incl. Orientation)	13 February, 26 April, 10 July, 2 October	13 February, 26 April, 10 July, 2 October	13 February, 26 April, 10 July, 2 October	13 February, 26 April, 10 July, 2 October
English language requirements***	IELTS 6.0 (no band less than 5.0)	IELTS 5.5 (no band less than 5.0)	IELTS 5.0 (no band less than 4.5)	IELTS 4.5 (no band less than 4.0)
International entry requirements	IB: at least 4x 4 grade CIE: 2 B grades and 2 C grades	IB: at least 3x 4 grade CIE: 4 C grades	IB: at least 2x 4 grade CIE: 2 D grades and 2 C grades	Please contact UP International College at international@up.education

*The tuition fees quoted above are in $NZD and are correct at the time of publication (30 November 2022). Visit **aut.up.education**

** Students starting with Foundation Connect will pay the Resource, Application and Exam fees once and will not be charged again upon progression to Foundation.

***IELTS criteria can be substituted for assessment with an UP English Language Test (UPELT) or accepted equivalents.

Progression requirements

For Certificate in Foundation Studies students applying for entry to AUT in 2023.

All AUT undergraduate degree offers require the following minimum University Entrance (UE) marks from the Certificate in Foundation Studies: eight courses (each with a pass rate of 50%) made up of four compulsory courses (English I and II, Culture & Society, Tertiary Study Skills), and four optional academic courses.

Programme	Minimum University Entrance marks (out of 400) for four academic courses	Semester Intake	Minimum Duration (Years)	Minimum English language proficiency	Addtitional requirements
Bachelor of Computer and Information Sciences (Data Science, Digital Services, Networks and Cybersecurity, Software Development)	200	February and July	3	English II (65% minimum), or IELTS 6.0 overall (with no band below 5.5), or equivalent.	Must have passed Algebra and Statistics

Scholarships

Progression Scholarships

Progression scholarships of up to NZ$5,000 are awarded towards the tuition fees of the first year of undergraduate degree study at Auckland University of Technology.

Pathway Scholarships

International Excellence Scholarships of up to NZ$5,000 and Fast Track Foundation Scholarships of up to NZ$2,500 are available for the Foundation Studies Programme.

Foundation Connect Scholarship

Student who successfully progress from Foundation Connect programme to Standard Foundation programme will be awarded up to NZ$5,000 scholarship if they achieve top results.

Scan to learn more about Scholarships and Academic Entry Requirements

AUT
NEW ZEALAND

Find out more at:
AUT.UP.EDUCATION