AUT

TE WĀNANGA ARONUI
O TĀMAKI MAKAU RAU

ENGINEERING, COMPUTER & MATHEMATICAL SCIENCES

UNDERGRADUATE
PROGRAMME GUIDE 2027

KNOWLEDGE THAT WORKS

Nau mai, haere mai ki AUT

WELCOME TO AUT

E ngā mana, e ngā reo	To the prestigious, the many voices
E te iti, e te rahi	The few, the great
E ngā mātāwaka o ngā tōpito o te ao	To those of all races and creeds
Ngā mahuetanga iho e kawe nei i ngā moemoeā o rātou mā	We who remain to fulfil the dreams and aspirations of the ancestors
Tēnā koutou katoa	Greetings one and all
Piki mai rā, kake mai rā,	Climb, ascend
Nau mai, haere mai ki tēnei o ngā wānanga	Embark on the journey of knowledge
Whakatau mai i raro i te korowai āhuru o Te Wānanga	Let us at AUT embrace and empower you
Aronui o Tāmaki Makau Rau	To strive for and achieve excellence
Te whakatupu i te kōunga, i te mana taurite me ngā tikanga matatika, i ngā pūkenga ako, i ngā pūkenga whakaako me te āta rangahau hei hāpai i ngā hāpori whānui o te motu, otirā, o te ao.	To foster excellence, equity and ethics in learning, teaching, research and scholarship, and in so doing serve our regional, national and international communities.

Image 5 on page 36 by Jason Mann.

Ngā ihirangi

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He aha ai e ako ki AUT?

WHY STUDY AT AUT?

Scan this QR code for details about courses, where your study could lead and stories about our graduates and students.

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1, 2 & 3 To practise what you've learnt you'll have access to industry-standard equipment and spaces to collaborate with your classmates 4 AUT's new humanoid robots combine robotics, AI and optics

Think all universities are the same? That's exactly why we built something different – a place where you belong exactly as you are and where your learning connects directly to real-world impact. We don't follow the usual university playbook, because different gets better results. Ready to see how?

Confident in your future

Complex problems need people who can solve them. Cybersecurity challenges that can't wait. Software that needs to scale fast. Infrastructure projects that can't fail. At AUT, you'll tackle issues like these for real companies. You'll work on projects with industry clients and complete workplace experience with organisations hiring graduates just like you. Small classes mean you work with lecturers who understand what industry problems look like and genuinely want to see you solve them. Then you'll graduate knowing you can build solutions under pressure – because you've been doing it all along.

Built for the real world

Most universities teach you to think. We also teach you to do. From day one, your learning connects to real-world application. You won't just study algorithms; you'll code solutions companies could use. You won't just learn engineering principles; you'll test structures that need to stand. Through workplace experience, you'll be inside organisations solving problems that matter. Your degree comes with recognition that counts – Engineering New Zealand recognises our Bachelor of Engineering (Honours) and Bachelor of Engineering Technology, IT Professionals NZ (ITPNZ) recognises our Bachelor of Computer and Information Sciences, and our maritime majors are accredited by Engineers Australia.

Industry-standard facilities

Theory's important. But at AUT, the real work happens in our world-class facilities – 3D printing labs, structure testing labs, a seismic shake table, scanning electron microscopes and specialist computing labs; the same technology professionals use daily. Our spaces are built to be used, and your learning connects directly to what the industry needs. You'll be based in our Ngā Wai Hono building – a living lab where engineering, computing and mathematical sciences meet, giving you space to collaborate, experiment and put ideas into action.

Research that shapes tomorrow

Tomorrow's technology challenges? We're already on them. From AI and robotics to cybersecurity and health technology, our research drives real change. We partner with industry and communities to drive meaningful change, creating knowledge that works well beyond the university. You'll learn from academics who are actively researching the field. What you're taught reflects what's happening now, not just what's in textbooks.

Oranga Tauira

STUDENT LIFE

We see you. We back you. Your success is our mission. It's care you can feel every day. This is AUT.

You're seen from day one

Orientation isn't really about maps or lecture rooms; it's about connection. This is where you'll meet the people who'll message you notes when you miss class, hype you up before a big presentation and check in when life gets heavy. It's also where you'll prep for academic success, and find out where to get help when you need it and who'll have your back throughout your time here. And that care carries on long after your first week. When you drop into the Student Hub – whether it's on campus or online – you'll find caring staff who remember your face, ask how things are going and genuinely want to help you sort whatever you need sorted.

Find your people

Over 90 clubs covering social, cultural, creative and special interests. Sports teams. Faith communities. Sustainability projects. Whatever your thing is, there's space for it – and if there isn't, start something new. You'll find recreation spaces and gyms where you can train or clear your head, social sports leagues where you can compete with mates, and opportunities to represent AUT through University and Tertiary Sport NZ. You'll find cafés and student lounges to hang out in, and places to grab food between classes. Throughout the year there are cultural festivals, guest speakers, performances and competitions; plenty of chances to get involved, try something different and make things happen.

Communities where you belong

At AUT we celebrate diversity. We're proud to be a Pride Pledge university and we're deeply committed to Te Tiriti o Waitangi. Belonging isn't a slogan. It's real, everyday spaces where you don't have to explain yourself. You'll find Māori and Pacific communities where culture leads the way, rainbow spaces that feel safe and joyful; support built around what disabled, Deaf and neurodivergent students need to thrive; guidance for international students finding their place in Aotearoa, and advocacy that makes sure your voice is heard.

Support that actually shows up

Uni is full of highs, lows and late night panic moments, and you're not expected to push through any of it alone. You'll have academic support that makes tricky assignments feel manageable, library research help when you're stuck, workshops to build your skills, counselling and medical care you can access without stress, practical help when money is tight – including food support and even laptops if you need them – and tech support that keeps your study running smoothly. Whatever you're facing, there's someone here who knows how to make it easier. And you can feel safe while you're here – our campuses are monitored 24/7.

Your future starts now

Employability isn't something you leave until graduation – it's woven through everything you do. You'll get career advice from people who understand your industry and what it's like to move from university to the working world, events where you can meet employers throughout the year, job boards linking you to opportunities, and volunteering and leadership activities, and real-world projects that build your confidence. Whether you're exploring internships, starting your own venture with entrepreneurship support or studying overseas at one of our partner universities, you'll find momentum that carries you into what comes next.

Want to know more?

Scan for full details on clubs, support services, campus facilities and everything else that makes AUT feel like your place.

Bachelor of Engineering (Honours)
Overview

BEng(Hons) | AK3751

Scan this QR code for details about courses, where your study could lead, and stories about our graduates and students.

Engineering isn't one thing – it's everything that powers how we live and work. AUT's Bachelor of Engineering (Honours) puts you at the centre of that change, from the systems that keep cities moving to the technology shaping tomorrow. You'll turn ideas into solutions through real projects and 800 hours of workplace experience, mastering the tools and thinking that make change happen. Accredited by Engineering New Zealand and meeting the Washington Accord, this degree prepares you for Engineering New Zealand membership and gives you global credibility – and the skills to engineer solutions that matter.

QUICK FACTS

Level	8
Points	480
Duration	4 years full-time, part-time available
Campus	City[1]
Starts	22 Feb & 12 July 2027

Entry requirements

Minimum entry requirements

University Entrance or equivalent including:

- **NCEA:** At least 14 level 3 credits in each of Calculus and Physics
- **CAIE:** A level Mathematics and a minimum of AS in Physics OR A level in Physics and a minimum of AS in Mathematics
- **IB:** A grade of 4 or better in Mathematics and Physics

Applicants without UE must demonstrate competency in Calculus and Physics to at least level 3 or equivalent.

Guaranteed entry

Applicants will automatically be offered a place in this programme if they have a rank score of 250 or higher, along with 14 NCEA level 3 credits in each of Calculus and Physics or CAIE A levels in Mathematics and Physics. All other applicants who have met the admission requirements will be considered on a case-by-case basis.

Useful New Zealand school subjects

Chemistry, Digital Technologies, English, Maths, Physics

English language requirements

IELTS (Academic) 6.0 overall with all bands 5.5 or higher; or equivalent.

Don't meet the entry requirements?

Consider starting with the Certificate in Science and Technology (see page 33) or Diploma in Engineering (see page 35).

1. Maritime engineering (Naval Architecture and Ocean Engineering) students study the first two years at AUT, and the last two years at Australian Maritime College (AMC) in Launceston, Tasmania.

"I've always known that hands-on practical experiments are the most effective means for me to gain a profound understanding. What I liked about AUT is that it places a strong emphasis on practical learning, providing ample opportunities for students to engage in real-world applications alongside theoretical instruction. One of the highlights for me was working with one of my professors on his research project to enhance the effectiveness of a continuous positive airway pressure system for the treatment of sleep apnea patients. The student life was great too, with a perfect balance of studies and time for yourself to enjoy. Because I was part of many clubs, I made heaps of friends from different backgrounds."

Prithvi Rajneesh Shethia
Product Development Engineer, Fisher & Paykel Healthcare
Bachelor of Engineering (Honours) in Mechanical Engineering

What this qualification covers

Engineering here is about doing, not just theory. You'll apply what you've learnt through projects and practical courses, backed by 800 hours of supervised work experience. Our strong industry partnerships with Fisher & Paykel, Beca, Opus, Spark and Contact Energy mean that real-world exposure is part of the deal.

YEAR 1

Year 1 is the same for everyone – core courses that give you a solid grounding in engineering disciplines and prepare you for advanced study in the next three years.

YEAR 2

This is where you move beyond theory. You'll start applying mathematical and engineering sciences to real problems and begin specialising in your major.

YEAR 3

Now it's about depth. You build on the skills you've already developed and further specialise in your chosen engineering subject. Maritime engineering students move to Tasmania this year.

YEAR 4

Your final year is where everything comes together. You'll complete an industrial project for an actual organisation, solving a real engineering challenge from concept to delivery. It's your chance to prove you're ready for the industry and graduate with work that speaks for itself.

	YEAR 1	YEAR 2	YEAR 3	YEAR 4
SEMESTER 1	Introduction to Sustainable Engineering Design 15 PTS	Major course 15 PTS	Major course 15 PTS	Innovation and Research Management 15 PTS
	Engineering Mechanics 15 PTS	Major course 15 PTS	Major course 15 PTS	Major course 15 PTS
	Engineering Mathematics I 15 PTS	Major course 15 PTS	Major course 15 PTS	Elective course 15 PTS
	Electrical Engineering Fundamentals 15 PTS	Major course 15 PTS	Major course 15 PTS	Final Year Research Project (Part A) 15 PTS
SEMESTER 2	Mahitahi | Collaborative Practices 15 PTS	Engineering Management 15 PTS	Major course 15 PTS	Major course 15 PTS
	Programming Concepts and Techniques 15 PTS	Major course 15 PTS	Major course 15 PTS	Major course 15 PTS
	Engineering Materials I 15 PTS	Major course 15 PTS	Major course 15 PTS	Major course 15 PTS
	Engineering Mathematics II 15 PTS	Major course 15 PTS	Major course 15 PTS	Final Year Research Project (Part B) 15 PTS

Core courses **PTS**: Points This chart is for guidance only. There could be some variation depending on which major you choose.

Bachelor of Engineering (Honours)
Overview continued

Majors

Your major is the subject area you want to specialise in. Choose one of these majors as part of your degree:

- Architectural Engineering
- Civil Construction Engineering
- Electrical and Electronic Engineering
- Maritime Engineering (Naval Architecture and Ocean Engineering)
- Mechanical Engineering
- Mechatronics Engineering
- Software Engineering

Maritime majors

This joint venture between AUT and the Australian Maritime College (AMC) at the University of Tasmania (UTAS) enables New Zealand students to study maritime engineering.

"One of the highlights of studying at AUT for me was working in the project labs every day with my peers. It was so nice being able to study, relax and mingle with different people from all sorts of majors. When things got tough, you could always rely on someone in the lab to give you the friendly reminders you needed. At Dominion Constructors, I'm now responsible for ensuring a project is being constructed as per the specifications, standards and technical documentation provided by a consulting engineer. I love the process of working through issues that arise on site, and being able to propose ideas for resolution. I'm proud that only a year out of university I'm already the leading site engineer on my current project."

Kennedy Caton
Site Engineer, Dominion Constructors
Bachelor of Engineering (Honours) in Architectural Engineering

Bachelor of Engineering (Honours)
Architectural Engineering

Scan this QR code for course details and graduate stories.

Buildings work because engineers make them work. Forget just walls and roofs – you'll design the systems that make buildings smart, sustainable and actually liveable. From ventilation and airconditioning to illumination, from energy efficiency to structural integrity, architectural engineers create spaces that perform as well as they look. This is engineering that shapes how people experience buildings every day.

What this major covers

Theory matters, but doing matters more. You'll work on real engineering projects throughout your degree, plus complete 800 hours of planned, supervised work experience. That's not just a requirement – it's your bridge to industry.

YEAR 1

Year 1 is the same for everyone – core courses that give you a solid grounding in engineering disciplines and prepare you for advanced study in the next three years. You'll study mathematics and computational techniques – the language of engineering – and communication and teamwork skills because engineering happens in teams, not isolation.

YEAR 2

Now you get into it: construction materials, structural engineering, building construction, thermodynamics, analytical thinking and engineering management; the skills that separate good engineers from project leaders.

YEAR 3

Time for the technical deep dive. Geotechnical engineering, structural analysis, architectural design and development. You'll master building subsystems – illumination engineering, sustainability, and heating, ventilation and airconditioning (HVAC) systems. This is where you learn to make buildings that actually work for people.

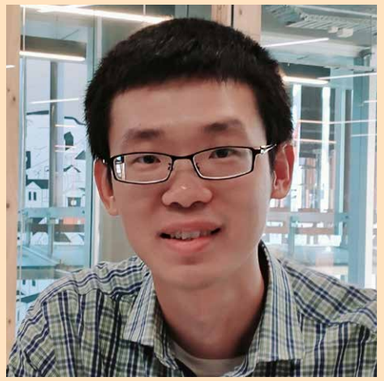
YEAR 4

Time to prove you're industry-ready. Your supervised, industrial-focused project shows you can manage, plan and deliver engineering solutions that matter. You'll also study innovation, research management and advanced architectural engineering topics to make sure you're ready to lead, not just follow.

Career opportunities

- Architectural design engineer
- Building services engineering
- Project management
- Building Information Management (BIM) specialist

This is an engineering qualification. Graduates will not be architects or qualified to register as architects.



"What I enjoyed the most were the resources and opportunities AUT provides to all its students. We were doing teamwork from the first year and I met some of my best friends in life through this. We accomplished many great projects that I still benefit from after graduating. I also had access to some of the most advanced design tools and library resources, and our lecturers were happy to spend hours after class to answer students' questions. In my role now I'm responsible for creating building structures that are up to standard. I like that my work is creative as every project is different. It feels good to provide solutions to solve any problems our designers and builders may have."

Yu Zhou
Structural Engineer, Dreamcast Group
Bachelor of Engineering (Honours) in Architectural Engineering

Bachelor of Engineering (Honours)

Civil Construction Engineering

Scan this QR code for course details and graduate stories.

Society runs on infrastructure you'll build. Civil construction engineers don't just design bridges and roads – they deliver the structures that keep cities functioning. This major teaches you to think big: planning, designing and managing construction at a scale that matters. You'll explore structural engineering, materials technologies, construction systems and construction management, plus strategies for productivity improvement and waste reduction. Safe, sustainable, built to last; that's the standard.

What this major covers

Engineering is learned by doing. You'll work on real projects throughout, plus complete 800 hours of planned, supervised work experience. When employers see your CV, they'll see someone who's already been on site.

YEAR 1

Year 1 is the same for everyone – core courses that give you a solid grounding in engineering disciplines and prepare you for advanced study in the next three years. You'll study mathematics and computational techniques – the language of engineering – and communication and teamwork skills because engineering happens in teams, not isolation.

YEAR 2

This year is about the fundamentals of how things get built: construction materials, structural engineering, building construction and quantity surveying. You'll also develop your engineering management and analytical skills to turn your knowledge into action.

YEAR 3

This is where you specialise – geotechnical engineering, structural analysis, construction planning, and the design of civil concrete and steel structures – the materials that hold cities together. You're learning to build infrastructure that counts.

YEAR 4

Now it's time to deliver. Your supervised, industry-focused project proves you can handle real complexity. You'll also study innovation, research management and advanced civil construction engineering to prepare yourself for the projects that define skylines and connect communities.

Career opportunities

- Civil and construction site manager
- Civil and construction sustainability consultant
- Digital design specialist (civil and construction)
- BIM coordinator/manager
- Building performance analyst

"The deciding factor for me was the more hands-on, relevant, project-based teaching philosophy that AUT promotes. Our final-year industry project was one of the highlights of my time at AUT. It felt rewarding that we had finally got to the stage where we, as a team, could produce a report and a design. That was essentially getting a taste of all the different engineering consultancy sectors in one university project. Another highlight for me was how helpful and insightful my lecturers were, especially in my last two years when I had lecturers who are specialists in the structural engineering sector; a sector I had an interest in."

Liam Morell
Graduate Structural Engineer, Building Structures, WSP
Bachelor of Engineering (Honours) in Construction Engineering

Bachelor of Engineering (Honours)

Electrical and Electronic Engineering

Scan this QR code for course details and graduate stories.

Electricity powers modern life – and you'll learn to engineer it smarter. Design renewable energy grids that balance supply and demand in milliseconds. Optimise telecommunications networks carrying petabytes of data. Create control systems for technologies still being imagined. In this major you'll cover circuit theory, power systems engineering and electronics – but you'll also go deep into the mathematics and engineering science that lets you innovate and solve complex problems. By the time you graduate, you won't just understand how electrical and electronic systems work. You'll know how to make them work better.

What this major covers

Theory matters, but doing matters more. You'll work on real engineering projects throughout your degree, plus complete 800 hours of planned, supervised work experience. That's not just a requirement – it's your way into the industry.

YEAR 1

Year 1 is the same for everyone – core courses that give you a solid grounding in engineering disciplines and prepare you for advanced study in the next three years. You'll study mathematics and computational techniques – the language of engineering – and communication and teamwork skills because engineering happens in teams, not isolation.

YEAR 2

This is where you go deeper into circuit theory, computers and microcontrollers, signals and control systems. You'll learn how to generate and store renewable energy, and apply engineering mathematics to more complex problems.

YEAR 3

Now it's about advanced concepts that power innovation: data engineering and AI, power electronic systems, embedded digital systems and instrumentation and control; the foundations to design smarter systems that perform under real-world conditions.

YEAR 4

Your final year is where everything comes together. You'll study courses that cover recent advancements in your field and complete an industry-focused research project, tackling an engineering challenge for organisations like Mighty River Power, Genesis Energy, Contact Energy, Fisher & Paykel Appliances, Spark and Auckland Airport.

Career opportunities

- Electrical or electronic engineer
- Embedded systems engineer
- Power engineer
- Engineering consultant
- Telecommunications engineer
- Aeronautical or aerospace engineer
- System engineer
- Automation engineer

"AUT provided immersive learning environments that gave us insights into the practical application of the theory we were learning through labs and workshops. During my time with AUT I managed to gain practical skills and work on industry projects that helped me stand out to employers when I was looking for internships and job roles. AUT is also quite big on entrepreneurship with events that encourage students to develop their business ideas. During some of my engineering projects we had to innovate and create our own thing, which really opened my eyes to how to make your own product. If you utilise the equipment in the labs and design workshops at AUT, you could make a viable product ready for the shelf."

Daniel Ruwangalegedara
Sri Lankan, Ngāpuhi, Ngāti Porou
Electrical Engineer (Building Services), AECOM
Bachelor of Engineering (Honours) in Electrical and Electronic Engineering

Bachelor of Engineering (Honours)

Maritime Engineering

Scan this QR code for course details and graduate stories.

Global trade runs on ships – and you'll learn to keep them moving. Design propulsion systems that can operate efficiently for thousands of kilometres without maintenance. Engineer power generation that keeps vessels operating in 10-metre swells. Tackle decarbonisation in an industry that moves 90% of the world's goods. Through a joint venture with Australian Maritime College, you'll study two years at AUT, then transfer to Tasmania for your final two years. There's no other programme like this in New Zealand.

What this major covers

Theory matters. But turning it into action matters more. You'll work on real engineering projects throughout your studies and complete 12 weeks of supervised work experience before you graduate. It's not just a box to tick – it's your launchpad into industry.

YEAR 1

Year 1 is the same for everyone – core courses that give you a solid grounding in engineering disciplines and prepare you for advanced study in the next three years. You'll study mathematics and computational techniques – the language of engineering – and communication and teamwork skills because engineering happens in teams, not isolation.

YEAR 2

This is where you apply mathematics and engineering science to real challenges. You'll master hydrostatics and fluid mechanics, ship production and design, thermodynamics and offshore systems.

YEAR 3 & 4

You'll transfer to the Australian Maritime College, University of Tasmania[1] to specialise in Naval Architecture or Ocean Engineering. You'll graduate with a Bachelor of Maritime Engineering (Honours). Workplace experience is built into the degree, giving you exposure to the maritime industry with companies like Alloy Yachts, Babcock Engineering, Marine Industrial Design and Transfield Worley.

1. Maritime majors are only open to New Zealand citizens.

Career opportunities

Graduates of the programme may be eligible for membership of:

- Engineers Australia (as a Graduate Professional Engineer)
- Royal Institution of Naval Architects
- The Institute of Marine Engineering, Science and Technology

"I'm a sailor, so I've spent a lot of time around boats and marine equipment. That naturally made me interested in how everything works behind the scenes, the engineering, the systems and the mechanics that keep vessels operating safely. I chose to study at AUT because it enabled me to start my maritime engineering degree here in New Zealand before transferring to Tasmania for the final two years of my studies. The timing worked well for me – I could begin the programme locally, get settled academically and then make the move to Australia. I've liked being around a great group of people who share similar interests. Student life has also given me the chance to explore different areas of the maritime industry. I especially appreciated when our AUT lecturer organised to take a group of us to the New Zealand navy base, which led to conversation with industry professionals."

Brooke Wright
4th-year student, Bachelor of Maritime Engineering (Honours)

Bachelor of Engineering (Honours)

Mechanical Engineering

Scan this QR code for course details and graduate stories.

Mechanical engineering shapes everything from jet engines to medical devices, from manufacturing systems to renewable energy. You'll learn to design systems where failure isn't an option and performance matters in measurable ways – more efficient, lighter, stronger, faster. You'll cover mechanics, thermodynamics and materials science with the mathematical depth to analyse why things break, how forces distribute through complex structures, where energy gets wasted. By the time you graduate you'll be ready to create mechanical systems that push boundaries, not just meet specifications.

What this major covers

Engineering isn't learned in a lecture – it's learned by doing. You'll take on real projects and complete 800 hours of supervised work experience that puts you inside the industry. When you graduate, employers won't just see theory – they'll see proof you can make ideas work under real conditions.

YEAR 1

Year 1 is the same for everyone – core courses that give you a solid grounding in engineering disciplines and prepare you for advanced study in the next three years. You'll study mathematics and computational techniques – the language of engineering – and communication and teamwork skills because engineering happens in teams, not isolation.

YEAR 2

This is where you build real depth – solid mechanics, mechanisms and machine dynamics, engineering design methodology, fluids and thermodynamics, and manufacturing technology. You'll sharpen your analytical thinking and strengthen your management and teamwork skills, because making ideas work in production takes more than theory.

YEAR 3

Now you tackle higher-level dynamics and solid mechanics, master materials and advanced manufacturing techniques, and dive into heat transfer and mechanical design. You'll build the expertise to take ideas beyond theory and into solutions that work under real conditions.

YEAR 4

Your final year is where everything comes together. You'll cover advanced mechanical engineering concepts and complete an industry-focused research project solving complex mechanical engineering challenges. It's your chance to prove you can lead mechanical engineering innovation, working on a project for organisations like Mighty River Power, Genesis Energy, Contact Energy, Fisher & Paykel Appliances, Spark and Auckland Airport.

Career opportunities

- Engineer and general manager
- Manufacturing engineer
- Mechanical engineer
- Product designer
- Project manager

"One highlight for me was my final-year project. I was working with one of the AUT professors who gave me the opportunity to submit my project as a scientific paper and then present it at a conference. It's cool to have a scientific paper to my name. Other highlights for me were learning how things actually worked in the world from a fundamental perspective; things like pressure, buoyancy or wireless communication. I also had some good times with friends, either studying or meeting up between classes and outside of uni. At WSP I'm now working on a variety of water-related projects, involving pipelines, pumping stations and treatment plants. Water is such a meaningful area to work in."

Oliver Bonner-Hutton
Water Engineer, WSP
Bachelor of Engineering (Honours) in Mechanical Engineering (First Class)

Bachelor of Engineering (Honours)

Mechatronics Engineering

Scan this QR code for course details and graduate stories.

Machines that think, systems that adapt – mechatronics integrates mechanical precision, electrical control and software intelligence. Design industrial robots that adapt to variations in real time. Create autonomous vehicles that make split-second decisions. Build manufacturing systems that optimise themselves. In this major you'll explore multiple engineering disciplines; not just technical depth but the business and project management skills that make complex systems work in the real world. You'll graduate ready to design mechatronic systems where mechanical, electrical and software components work together seamlessly.

What this major covers

Complex systems don't come together on paper – they come together in practice. You'll work on real projects and complete 800 hours of supervised work experience before you graduate. It's where you prove you can turn innovation into working technology.

YEAR 1

Year 1 is the same for everyone – core courses that give you a solid grounding in engineering disciplines and prepare you for advanced study in the next three years. You'll study mathematics and computational techniques – the language of engineering – and communication and teamwork skills because engineering happens in teams, not isolation.

YEAR 2

This is where you get hands-on with the essentials: microcontrollers, solid mechanics, electronics and the dynamics of machinery. You'll sharpen your engineering maths because precision isn't optional – it's what makes complex systems work in the real world.

YEAR 3

Now it's about advanced systems and intelligence: embedded digital systems, instrumentation and control, data engineering and AI, plus machines and drives. You'll learn how to bring these technologies together to create smarter, faster solutions that perform where it counts.

YEAR 4

Your final year is where you step up and prove it. You'll take on a research project inside a real engineering environment and tackle challenges that demand everything you've learnt. At the same time, you'll sharpen advanced analytic thinking and dive into the latest breakthroughs in your field; building expertise that sets you apart.

Career opportunities

- Automation engineer
- Process engineer
- Robotics engineer
- AI engineer
- Systems engineer
- Biomedical engineer
- Embedded systems engineer
- R&D engineer
- Design engineer
- Project management roles

"What I enjoyed most about studying were the people I've met and all the opportunities studying at AUT brought me. This allowed me to get out of my comfort zone, and improve and learn new skills. I also appreciated the hands-on nature of some of the courses. That was enjoyable and fascinating. Being able to put the theory you've learnt into a working model is what makes engineering fun. This hands-on experience further boosts your confidence as you know you can tackle real-life problems thrown at you once you go out into the industry. AUT's Employability Lab is one of the must-visit services to improve your CV or get help writing cover letters. Their almost weekly employer information sessions also provide a good opportunity to meet the industry and talk to your future employers."

Sithum Nanayakkara
Graduate Engineer, Fonterra
Bachelor of Engineering (Honours) in Mechatronics Engineering

Bachelor of Engineering (Honours)

Software Engineering

Scan this QR code for course details and graduate stories.

Software runs everything – but making it scale takes engineering muscle. Software engineers design distributed systems that serve millions of users without failing. Architect cloud infrastructure that handles unpredictable loads. Create software where security vulnerabilities cost organisations everything. In this major you'll learn to design, develop, test and maintain software. You'll graduate ready to architect software that doesn't just work today – it keeps working as demands grow exponentially.

What this major covers

Theory matters, but doing matters more. You'll work on real engineering projects throughout your degree, plus complete 800 hours of planned, supervised work experience. That's not just a requirement - it's your way into the industry.

YEAR 1

Year 1 is the same for everyone – core courses that give you a solid grounding in engineering disciplines and prepare you for advanced study in the next three years. You'll study mathematics and computational techniques – the language of engineering – and communication and teamwork skills because engineering happens in teams, not isolation.

YEAR 2

Now it's about building the core of software engineering: data structures and algorithms, software theory and construction, operating systems and database design. You'll also sharpen your engineering maths because precision is what makes complex systems work.

YEAR 3

This year is about pushing into advanced software engineering: highly secure systems, data engineering and AI, plus the issues shaping the industry right now. You'll also take on a team project that tests your ability to design and deliver under real-world conditions.

YEAR 4

Your final year is where everything comes together. You'll complete an industry-focused research project for a real organisation, proving you can architect, develop and deploy software systems that meet demanding technical and business requirements.

Career opportunities

- Software engineer
- Database programmer and architect
- Software tester
- Software development project manager
- Embedded software designer or developer
- Mobile apps designer or developer
- Cloud applications developer
- Solutions architect

"Highlights for me were AUT's smaller class sizes, hands-on approach and its care for students as people. I loved living in AUT student accommodation and made so many memories there. My degree has taught me a lot, including time management, communication, collaboration, independence, opportunity harnessing and the importance of building networks. These skills have changed my life and opened so many doors. I'm now part of Air New Zealand's popular digital graduate programme, and it's fascinating how airlines have managed to digitise processes that would never have crossed my mind. For example, the area of work I'm currently onboarded to handles the part of the booking process which finds flight routes between an origin and destination, and the seats available on those flights."

Jasmine Amohia
Te Ati Haunui-a-Pāpāparangi, Ngāti Haua, Ngāti Maru, Cambodian, Indian
Microservices Software Engineer, Air New Zealand
Bachelor of Engineering (Honours) in Software Engineering (First Class)

Bachelor of Engineering Technology
Overview

BEngTech | AK3719

Scan this QR code for details about courses, where your study could lead, and stories about our graduates and students.

QUICK FACTS

Level	7
Points	360
Duration	3 years full-time, part-time available
Campus	City
Starts	22 Feb & 12 July 2027

This is where ideas become solutions. AUT's Bachelor of Engineering Technology is for people who want to make things work – fast, smart and sustainably. Accredited by Engineering New Zealand and meeting the Sydney Accord, you'll learn to navigate tech that's changing all the time. You'll design solutions that stick, make calls that matter and sharpen your teamwork skills, because different minds solve problems faster. Our strong industry links mean you'll work on real challenges and connect with companies like Fisher & Paykel, Beca, Opus, Spark, One NZ, Sky TV and Contact Energy; experience that counts when you graduate. This is practical engineering for a world that won't wait.

Entry requirements

Minimum entry requirements

University Entrance or equivalent including:

- **NCEA:** 14 credits or more at level 2 or above (including AS91261 and AS91262) OR NCEA level 3 in Maths, Stats or Calculus, AND 14 credits or more at NCEA Level 2 or above in Physics
- **CAIE:** A D grade or better in Mathematics and Physics at AS level
- **IB:** Passes (level 4) in both Mathematics and Physics

Applicants without UE must demonstrate competency in Mathematics (algebra) and Physics to at least level 2 or equivalent.

Useful New Zealand school subjects

Digital Technologies, English, Technology

English language requirements

IELTS (Academic) 6.0 overall with all bands 5.5 or higher; or equivalent.

Don't meet the entry requirements?

Consider starting with the Certificate in Science and Technology (see page 33) or Diploma in Engineering (see page 35).

"I've chosen to study this programme as I'm an inquisitive and practical person, and have always been fascinated by engineering. AUT is known as a more practical university, with an emphasis on learning skills that I can apply once I start my career, and I liked that the Bachelor of Engineering Technology leans more into the practical application of engineering. I've enjoyed learning about the different engineering concepts, including thermodynamics, fluid mechanics, statics, dynamics, materials and engineering design. All these concepts were presented in a practical context, rather than focusing just on the theory and deriving equations. I've always been more of a practical and visual learner, so the practical approach of AUT has significantly helped in boosting my performance."

Darren Khauv
3rd-year student, Bachelor of Engineering Technology in Mechanical Engineering

What this qualification covers

Engineering here is about making things work – and making them work well. You'll learn through practical courses and real projects, backed by 600 hours of supervised workplace experience before you graduate. Our strong industry partnerships mean real-world exposure is part of the deal.

YEAR 1

Your first year sets the foundation. You'll explore different fields of engineering, build core skills that prepare you for your second and third year, and start to imagine what your future career as an engineer could look like. Most courses are shared with the Bachelor of Engineering (Honours), so switching between degrees and majors is easy.

YEAR 2 & 3

Now it's about depth and application. You'll specialise in your chosen subject, advance your knowledge and in Year 3 take on a final-year industry project for an actual organisation. You'll solve a real engineering challenge from concept to delivery – work that proves you're ready for the industry.

Majors

Your major is the subject area you want to specialise in. Choose one of these majors as part of your degree:

- Electrical and Electronic Engineering
- Mechanical Engineering

	YEAR 1	YEAR 2	YEAR 3
SEMESTER 1	Introductory Engineering Mathematics 15 PTS	Major course 15 PTS	Major course 15 PTS
	Electrical Engineering Fundamentals 15 PTS	Major course 15 PTS	Major course 15 PTS
	Introduction to Sustainable Engineering Design 15 PTS	Major course 15 PTS	Optional course 15 PTS
	Major course 15 PTS	Major course 15 PTS	Optional course 15 PTS
SEMESTER 2	Engineering Materials I 15 PTS	Engineering Management 15 PTS	Major course 15 PTS
	Mahitahi I Collaborative Practices 15 PTS	Major course 15 PTS	Optional course 15 PTS
	Programming Concepts and Techniques 15 PTS	Major course 15 PTS	Specialisation Project 30 PTS
	Engineering Mathematics I 15 PTS	Major course 15 PTS	

Core courses **PTS**: Points This chart is for guidance only. There could be some variation depending on which major you choose.

Bachelor of Engineering Technology

Electrical and Electronic Engineering

Scan this QR code for course details and graduate stories.

Electrical systems run modern life – from the power grid keeping hospitals running to the control systems managing factory floors. This major equips you to design, implement and maintain the electrical, control and power systems that industries and communities depend on. You'll cover electrical power circuits, process control systems and programmable logic controllers; the technology behind everything from building automation to renewable energy networks. In your final year you specialise in building services, power systems or control, shaping your degree around where you want to take this.

What this major covers

Theory matters, but doing matters more. You'll work on real engineering projects throughout your degree, plus complete 600 hours of planned, supervised work experience. That's not just a requirement – it's your way into the industry.

YEAR 1

Year 1 is about the foundations. You'll share most first-year courses with the other Bachelor of Engineering Technology major, plus take your first electrical course and explore computer systems, digital devices and programming. It's the start of skills that turn ideas into working solutions.

YEAR 2

Now it's about electrical systems and precision control. You'll deepen your knowledge of electrical systems and automation, build management and project management skills and complete a compulsory practical project; experience that shows how theory becomes real-world solutions.

YEAR 3

Your final year is where advanced concepts meet real industry challenges. This year you complete a supervised specialisation project; developing design and production skills. You'll work individually or in teams, critically reflecting on how your studies connect to engineering workplace practice, testing theories and identifying knowledge gaps. You also tackle advanced concepts including renewable energy, power systems and electrical machines. This is where you prove you're ready for industry.

Career opportunities

- Control system engineer
- Lighting and building services engineer
- Power systems engineer

"I picked AUT because I wanted to study somewhere with a more practical approach. My sense of understanding comes heavily from being able to see what is happening in front of me, rather than from only theoretical learning. The labs that were offered at AUT helped deepen my understanding of what we were learning. In my role now, I'm heavily involved in draughting and modelling the lighting and power systems, and drawing details for the electricians and builders to follow, but I've also been involved with draughting mechanical and hydraulics systems. I work closely with architects, clients, project managers, civil engineers, structural engineers and fire engineers to create buildings that comply with the New Zealand building requirements."

Sasha Walker
BIM/Graduate Electrical Engineer, 22 Degrees
Bachelor of Engineering Technology in Electrical Engineering

Bachelor of Engineering Technology

Mechanical Engineering

Scan this QR code for course details and graduate stories.

Everything that moves needs mechanical engineers – and that's just the start. From food processing to plastics manufacturing and automated systems, industries rely on mechanical engineers who know how to make things work under real conditions.
This major prepares you for careers in mechanical, production or manufacturing engineering across sectors that can't function without people like you. You'll learn to design, build and improve systems that perform where it matters most; turning concepts into solutions that work on factory floors, not just in computer simulations.

What this major covers

Engineering is best learned by doing. You'll work on real engineering projects throughout your degree, plus complete 600 hours of planned, supervised work experience. That's not just a requirement – it's the launchpad for your career.

YEAR 1

Year 1 is about building a strong base. You'll share most first-year courses with the other Bachelor of Engineering Technology major, plus take your first mechanical course and get familiar with key concepts in mechanical engineering. This is where you'll develop the technical foundation you'll build on for everything that comes next.

YEAR 2

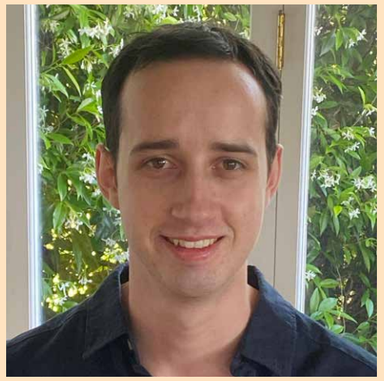
Now it's about depth and design. You'll advance your knowledge of mechanics, fluid mechanics and mathematics – the tools mechanical engineers use to analyse forces, flows and stresses. You'll also explore manufacturing technology and engineering management; skills that prepare you for the challenges of modern production and design environments. Because making things work on paper is one thing, making them work in production is another.

YEAR 3

Your final year is where theory meets production. You'll master advanced topics – heat transfer, mechanical design and product design – and complete a supervised specialisation project that takes you from concept to delivery. You'll work individually or in teams, critically reflecting on how your studies connect to engineering workplace practice, testing theories and identifying knowledge gaps. This is where everything comes together.

Career opportunities

- Maintenance engineer
- Mechanical design engineer
- Mechanical engineer
- Product development engineer
- Production/manufacturing engineer
- Project management



"I've always been drawn to how things work or interact together. Of all the engineering subjects, studying mechanical engineering made the most sense for me. When I was deciding where to study, being based in Auckland was a large drawcard, and AUT's reputation as a more practical university was also a big factor for me. At AUT I was able to challenge myself mentally and prove to myself that I can achieve what I put my mind to. The flexibility of study with AUT was nice. The support and infrastructure behind learning was also great, with computers and wifi available on campus, study areas, accurate and easy to access timetabling, and the support from the Employability and Careers team who will analyse your CV and cover letters."

Matthew Eaton
Injection Moulding Process Development Engineer, Fisher & Paykel Healthcare
Bachelor of Engineering Technology in Mechanical Engineering

Bachelor of Computer and Information Sciences
Overview

BCIS | AK3697

Scan this QR code for details about courses, where your study could lead and stories about our graduates and students.

Tech shapes everything around you – and you're here to shape it back. This isn't a degree you sit through; it's one you get stuck into; building the skills that power every industry. Our Bachelor of Computer and Information Sciences is globally recognised by the Institute of IT Professionals NZ under the Seoul Accord – so your degree carries weight anywhere. You'll work in cutting-edge facilities and connect with industry at our ICT and Engineering Careers Fair, where some of the country's biggest innovators come looking for talent. Then take on an industry research project that moves you beyond theory into real-world problem solving. Graduate ready to lead, not follow.

QUICK FACTS

Level	7
Points	360
Duration	3 years full-time, part-time available
Campus	City
Starts	22 Feb & 12 July 2027

Entry requirements

Minimum entry requirements

University Entrance or equivalent

Useful New Zealand school subjects

Calculus, Digital Technologies, Mathematics, Statistics

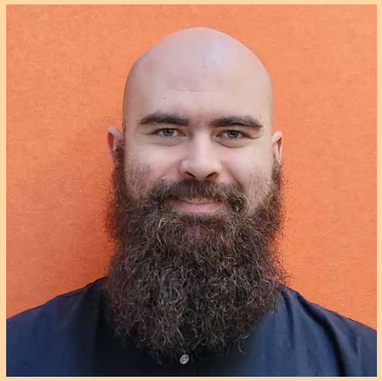
English language requirements

IELTS (Academic) 6.0 overall with all bands 5.5 or higher; or equivalent

Don't meet the entry requirements?

Consider starting with the Certificate in Science and Technology (see page 33) or Diploma in Computer and Information Sciences (see page 34).

DEGREE ACCREDITED BY IT PROFESSIONALS NEW ZEALAND



"One of my favourite classes while I was at AUT was my game development class. The lecturer was extremely good, and I was able to push myself in my skills and develop my own mini physics engine. The many late evenings in the labs led to something I was very proud of! I was also particularly proud when I managed to get an A+ for my essay for the Computer Human Interaction class, which I took a year early, and I heard that the following year my essay was used as a gold standard example. Programming to me is like digital Lego and in my work now every day I now get paid to play!"

Nikkolas Diehl
Te Rarawa
Intermediate Software Developer, Masterspec
Bachelor of Computer and Information Sciences in Software Development

What this qualification covers

The Bachelor of Computer and Information Sciences is highly flexible and you can build your degree in a way that suits you and your interests.

To graduate with a Bachelor of Computer and Information Sciences you need to complete:

Core courses (120 points)

These are courses all students in this degree need to take. These courses cover foundation knowledge in computing and IT, and help you decide which subject to focus on later in your studies. One of the core courses is the research and development project you complete in your third year.

Your chosen major (120 points)

Your major is the subject area you want to specialise in. This makes up one third of your degree, and usually consists of eight courses related to your chosen subject. You can view the list of majors in this degree on page 22.

Flexible component (120 points)

You can choose one of the following options:

- Two minors (60 points each); or
- A minor (60 points) and elective courses (60 points); or
- A second major (120 points)

Your second major, minor(s) and elective courses can be from computing or from different AUT degrees.

	YEAR 1	YEAR 2	YEAR 3
SEMESTER 1	Programming Concepts & Techniques 15 PTS	Major course 15 PTS	Major course 15 PTS
	Computing Technology in Society 15 PTS	Major course 15 PTS	Major course 15 PTS
	Mahitahi | Collaborative Practices 15 PTS	Flexible component 15 PTS	Flexible component 15 PTS
	Mathematics for Computing 15 PTS	Flexible component 15 PTS	Flexible component 15 PTS
SEMESTER 2	IT Project Management 15 PTS	Major course 15 PTS	Major course 15 PTS
	Database System Design 15 PTS	Major course 15 PTS	Flexible component 15 PTS
	Major course 15 PTS	Flexible component 15 PTS	Research & Development Project 30 PTS
	Flexible component 15 PTS	Flexible component 15 PTS	

Core courses **PTS**: Points

Bachelor of Computer and Information Sciences
Overview continued

Majors

Choose one of these majors as part of your degree:

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

Refer to pages 23 to 27 for more details on each of these majors.

If you want to include a second major in your degree, you can choose another subject from the list above or can see more options from different AUT degrees on aut.ac.nz/majors-minors

Minors

A minor is smaller than a major. It usually consists of four courses.

If you decide to include a minor in your degree, you could choose from:

- Artificial Intelligence
- Computer Science
- Data Science
- Digital Services
- Networks and Cybersecurity
- Software Development

For more information on each of these minors and to see even more minors from other subjects visit aut.ac.nz/majors-minors

Build your degree on our website

Visit our website to build your own degree and see what your three years of study could look like. Simply scan the QR code on page 21.

Possible combinations include:

- Bachelor of Computer and Information Sciences in Networks and Cybersecurity with minors in Finance & Economics (one major, two minors)
- Bachelor of Computer and Information Sciences in Software Development with a minor in Artificial Intelligence (one major, one minor, plus elective courses of your choice)
- Bachelor of Computer and Information Sciences in Data Science & Software Development (two majors)

Bachelor of Computer and Information Sciences
Computer Science

Scan this QR code for course details and graduate stories.

Computer science shapes the systems that shape the world. It's not just about how computers work – it's about solving problems that matter and driving the tech that powers everything from AI to global networks. In this major you'll explore computing theory and practical applications, learning to design algorithms, build secure systems and create software that scales. You'll graduate ready for careers that are in demand worldwide, and equipped to lead the next wave of innovation.

Career opportunities

- Algorithm engineer
- Back-end developer
- Quantitative analyst/researcher
- IT project manager

What this major covers

YEAR 1

Year 1 builds your foundation. You'll study six core courses covering essential computing principles, plus a programming course focused on object-oriented design and implementation. You'll also start courses for your second major, minor(s) or electives – setting up a degree that reflects your ambitions.

YEAR 2

Now you go deeper. You'll tackle data structures and algorithms, computer graphics programming and logical and combinatorial tools and methods. You'll keep building your second major, minor(s) or electives, and sharpen the skills that prepare you for advanced computing challenges.

YEAR 3

This is where theory meets scale. You'll study computation theory, programming languages and distributed and mobile systems, and complete the final courses for your second major, minor(s) or electives. Your Research and Development Project caps it off – here you'll apply everything you've learnt in a real project for an industry client or research centre under expert supervision, and prove you're ready for the challenges of a global tech career.

Bachelor of Computer and Information Sciences

Data Science

Scan this QR code for course details and graduate stories.

Data isn't just numbers – it's insight, prediction and power. Advances in big data analytics are already transforming how businesses and organisations make decisions, using machine learning to automate processes and uncover patterns humans can't see. In this major you'll learn to design and implement data-driven solutions that solve real problems. You'll study techniques for analysing complex datasets, apply computing tools that turn raw information into actionable knowledge and graduate ready to lead in one of the fastest-growing fields in tech.

What this major covers

YEAR 1

Year 1 builds your foundation. You'll study six core courses covering essential computing principles, plus a course on data analytics that introduces basic analysis techniques and the tools to apply them. You'll also start courses for your second major, minor(s) or electives – setting up a degree that reflects your ambitions.

YEAR 2

This is where the numbers start telling stories. You'll explore data science, forecasting and structures and algorithms, learning how to turn raw data into insights that matter. You'll keep building your second major, minor(s) or electives, and strengthen the skills that prepare you for advanced analytics and modelling.

YEAR 3

Now it's time to push boundaries. You'll dive into nature-inspired computing, AI, data mining and knowledge engineering, and complete the final courses for your second major, minor(s) or electives. Your Research and Development Project is where it all comes together – you'll apply everything you've learnt in a real project for an industry client or research centre under expert supervision, and prove you're ready for the challenges of a global tech career.

Career opportunities

- Data analyst
- Data scientist
- Data engineer

"I decided to pursue a degree in data science because I had been following sports and the statistical analysis of player performances against other metrics sparked my interest. I was excited about understanding how this works, and it was interesting to apply the skills from my degree to the sporting analytical world. I had a look at a few different universities before finalising my decision to come to AUT. I found that AUT had the most practical degree, which is the best preparation for applying the learnings in the future. My final-year project – Moneyball for Motorsport – gave me the opportunity to delve deeper into sports analytics. Applying my knowledge to practical scenarios was so rewarding! I enjoyed working on a real-life scenario for a company and gained experiences that will help me throughout my future."

Monalisa Verma
Financial Risk Intern, Kiwibank
Master of Analytics
Bachelor of Computer and Information Sciences in Data Science

Bachelor of Computer and Information Sciences

Digital Services

Scan this QR code for course details and graduate stories.

Technology runs everything – but only if it's secure, seamless and built for purpose. Digital services is where you learn to make that happen. You'll master the art of analysing needs, designing solutions and managing IT services that organisations rely on every day. From procurement and implementation to service innovation, you'll graduate ready to deliver technology that works, and lead projects that keep businesses moving.

What this major covers

YEAR 1

Year 1 builds your foundation. You'll study six core courses covering essential computing principles, plus a course on digital services and their role in IT service development and delivery, introducing you to IT service management processes, practices and techniques. You'll also start courses for your second major, minor(s) or electives – setting up a degree that reflects your ambitions.

YEAR 2

This is where strategy meets systems. You'll cover needs analysis, acquisition and training, modelling, microservices, program design and construction, and information security technologies. You'll keep building your second major, minor(s) or electives, and develop the skills to manage complex digital environments.

YEAR 3

Now it's about innovation. You'll explore service design, IoT applications and information security management, and complete the final courses for your second major, minor(s) or electives. Your Research and Development Project is where it all comes together – applying everything you've learnt in a real project for an industry client or research centre under expert supervision, and proving you're ready for the challenges of a global tech career.

Career opportunities

- Call centre manager
- Database administrator
- Information analyst and designer
- IT support role
- Logistics analyst
- Network and systems administrator
- Outsourced IT services co-ordinator
- Solutions architect
- Integration and functional consultant
- IS operational manager
- IT service supervisor

"I opted for AUT because of its diverse culture, its practical approach to learning and the vibrant student life; making it an ideal environment for my academic journey. It encourages students to want more, strive for greatness and excel in whatever they believe in. I chose to study the Bachelor of Computer and Information Sciences because of my longstanding interest in computer games and the potential of technology. I decided to minor in business management as it went hand in hand with my computer science degree. The sense of community is what I enjoyed most about my studies. After experiencing the various clubs and groups AUT has to offer I became comfortable around campus. The hands-on experiences in my degree also enhanced my understanding and made my studies engaging."

Jordan Christian Saimasi-Mika
IT/Digital Lead, Vinnies
Bachelor of Computer and Information Sciences with a minor in Business Management

Bachelor of Computer and Information Sciences

Networks and Cybersecurity

Scan this QR code for course details and graduate stories.

Think information is safe? Think again. It's an organisation's most valuable asset, and one of its easiest to compromise. This major is where you learn to protect it. You'll master the infrastructure behind networking, configure and analyse network devices, and take cybersecurity to an advanced level. From network administration to secure systems, you'll graduate ready to design and defend the technology businesses depend on – because in a world of constant threats, security isn't optional.

What this major covers

YEAR 1

Year 1 builds your foundation. You'll study six core courses covering foundational computing knowledge, and dive into data communications and networking principles in a real network environment. You'll also begin courses for your second major, minor(s) or electives – shaping a degree that fits your goals.

YEAR 2

This is where systems get serious. You'll cover network and system administration, applications and operating systems, while continuing courses for your second major, minor(s) or electives. It's about building the technical depth to manage and maintain complex networks.

YEAR 3

Now you focus on defence and scale. You'll complete courses in network security, enterprise networks, secure systems and information security management, alongside the final courses for your second major, minor(s) or electives. The Research and Development Project is where your knowledge meets impact – you'll deliver a real-world solution for an industry client or research centre, showing you're ready to lead in a tech-driven world.

Career opportunities

- IT security analyst
- Network analyst
- Network designer
- Systems and network administrator

"While researching universities, I discovered AUT's computing programme and was drawn to its practical approach, offering hands-on experience across the degree. The opportunity to work directly with the technology I'll encounter in the IT industry was a key factor in my decision. I knew that AUT's emphasis on hands-on learning would equip me with the experience and confidence needed to effectively problem-solve in the field. I also loved the extracurricular activities where I could hone my interpersonal communication skills and seamlessly integrate them into my academic work. This proved especially valuable in presentations and leadership roles in group projects, including my final-year research and development project where I coordinated with vendors, the university and my team to navigate specific requirements related to the Google API."

Ashley Groves
Te Arawa, Ngāpuhi
End-User Computing (EUC) Analyst, FletcherTech, Fletcher Building
Bachelor of Computer and Information Sciences in Software Development & Networks and Security

Bachelor of Computer and Information Sciences

Software Development

Scan this QR code for course details and graduate stories.

Demand for new technology never slows – and neither do the opportunities. From biomedicine to entertainment, software drives the breakthroughs that change how we live and work. In this major you'll learn to design, build and refine solutions that perform under pressure and adapt to constant change. You'll graduate ready for roles that shape industries – and set the pace for what comes next.

What this major covers

YEAR 1

Year 1 builds your foundation. You'll study six core courses covering essential computing principles, plus a programming course focused on object-oriented design and implementation. You'll also start courses for your second major, minor(s) or electives – setting up a degree that reflects your ambitions.

YEAR 2

This is where ideas become systems. You'll cover software development practice, program design and construction, data structures, operating systems and algorithms. You'll keep building your second major, minor(s) or electives, and develop the skills to engineer software that performs under pressure.

YEAR 3

Now it's about scale and experience. You'll complete courses in human–computer interaction, issues in software engineering, distributed and mobile systems and web development, alongside the final courses for your second major, minor(s) or electives. Your Research and Development Project is where everything clicks – turning theory into a real solution for an industry client or research centre, and proving you can deliver when it counts.

Career opportunities

- Computer programmer
- Mobile/app developer
- Software developer, engineer or tester
- Systems analyst or architect
- Technology consultant
- Web developer
- Project manager

"I made a lot of friends during my time at AUT, especially in my final-year research and development project. We were creating an AUT bus app and I was assigned the iOS app development. Everyone was really passionate about what they were doing. I loved that at AUT you can have your laptop and study basically anywhere you want, for example at the library or cafeteria. I also received a lot of help from my lecturers and teaching assistants – they were always happy to help and answer any random questions I had. I now work for Brittain Wynyard, a major sports, adventure and lifestyle products distributor in New Zealand, for brands like Asics, Timberland or Birkenstock. I'm currently handling the company's whole e-commerce side of things and the internal workflow between different departments."

The Ton (Tony) Le
System Integration Manager, Brittain Wynyard Co Ltd
Bachelor of Computer and Information Sciences in Software Development

Bachelor of Science
Overview

BSc | AK1041

QUICK FACTS

Level	7
Points	360
Duration	3 years full-time, part-time available
Campus	City
Starts	22 Feb & 12 July 2027

Numbers don't just describe the world – they shape it. In the Bachelor of Science you'll learn by doing, not just listening, because real understanding comes from action. You'll work with leading lecturers and industry-standard tools from day one, tackling real-world problems through data, modelling and computation. Projects and simulations build experience that counts, and with strong global links to the scientific and tech community, you'll graduate ready to turn insight into impact and move confidently from study to a career that matters.

Entry requirements

Minimum entry requirements

University Entrance or equivalent

Useful New Zealand school subjects

Calculus, Mathematics, Physics, Statistics

English language requirements

IELTS (Academic) 6.0 overall with all bands 5.5 or higher; or equivalent

"I chose AUT because of its strong reputation for applied learning and its focus on preparing students for the real world. I like that AUT offers modern facilities, innovative teaching methods and industry-relevant course content. Through coding assignments, laboratory experiments, mathematical modelling projects and data analysis tasks I've been able to apply theory in meaningful ways. These experiences have helped me develop critical thinking, problem-solving and technical skills. I've enjoyed being part of a diverse and inclusive community where students from different backgrounds come together to learn and grow. I wanted to study at a university that not only focused on academic success but also encouraged personal growth and professional development, and AUT has provided that environment. The campus environment motivates me to stay focused, confident and inspired."

Lizza
2nd-year student, Bachelor of Science in Mathematical Modelling and Computation & Analytics

Scan this QR code for details about courses, where your study could lead and stories about our graduates and students.

What this qualification covers

The Bachelor of Science is highly flexible and you can build your degree in a way that reflects your interests.

To graduate with a Bachelor of Science you need to complete:

Core courses (120 points)

These are courses all students in this degree need to take. These courses give you a basic understanding of different areas of science, and help you decide which subject to focus on later in your studies.

One of the core courses is the capstone project you complete in your third year where you can gain practical experience related to your chosen science subject.

Your chosen major (120 points)

Your major is the subject area you want to specialise in. This makes up one third of your degree, and usually consists of eight courses related to your chosen subject. You can view the list of majors in this degree on page 30.

Flexible component (120 points)

You can choose one of the following options:

- Two minors (60 points each); or
- A minor (60 points) and elective courses (60 points); or
- A second major (120 points)

Your second major, minor(s) and elective courses can be from science or from different AUT degrees.

	YEAR 1	YEAR 2	YEAR 3
SEMESTER 1	Mahitahi | Collaborative Practices OR Science & Society – 15 PTS	Vision Mātauranga: Science Practice in Aotearoa – 15 PTS	Science Capstone Project A – 15 PTS
	Natural sciences course – 15 PTS	Instrumental Analysis OR Scientific Inquiry – 15 PTS	Major course – 15 PTS
	Mathematical & computer sciences course – 15 PTS	Major course – 15 PTS	Major course – 15 PTS
	Natural sciences course OR mathematical & computer sciences course – 15 PTS	Major course – 15 PTS	Flexible component – 15 PTS
SEMESTER 2	Major course – 15 PTS	Major course – 15 PTS	Science Capstone Project B – 15 PTS
	Major course – 15 PTS	Flexible component – 15 PTS	Major course – 15 PTS
	Flexible component – 15 PTS	Flexible component – 15 PTS	Flexible component – 15 PTS
	Flexible component – 15 PTS	Flexible component – 15 PTS	Flexible component – 15 PTS

Core courses **PTS**: Points

The semesters in which courses are taught could change.

Bachelor of Science
Overview continued

Majors

Choose one of these majors as part of your degree:

- Analytics
- Mathematical Modelling and Computation

Refer to pages 31 to 32 for more details on each of these majors.

If you want to include a second major in your degree, you can choose another subject from the list above or you could choose from other subjects in the Bachelor of Science:

- Biological Science
- Biomedical Science
- Chemistry
- Environmental Science
- Food Science
- Marine Science

Scan the QR code on page 29 to see more info on these science majors.

To see more options from different AUT degrees visit aut.ac.nz/majors-minors

Minors

A minor is smaller than a major. It usually consists of four courses. If you decide to include a minor in your degree, you could choose from:

- Analytics
- Astronomy and Space Science
- Bioanalytical Chemistry
- Biochemistry
- Biodiversity Conservation
- Biomedical Science
- Chemical Science
- Earth System Science
- Environmental Science
- Environmental Sustainability
- Food Science
- Geospatial Science
- Marine Science
- Mathematical Modelling and Computation
- Microbiology
- Molecular Genetics
- Pharmaceutical Formulation

For more information on each of these minors and to see even more minors from other subjects visit aut.ac.nz/majors-minors

Build your degree on our website

Visit our website to build your own degree and see what your three years of study could look like. Simply scan the QR code on page 29.

Possible combinations include:

- Bachelor of Science in Analytics with minors in Psychology & Economics (one major, two minors)
- Bachelor of Science in Analytics with a minor in Geospatial Science (one major, one minor, plus elective courses of your choice)
- Bachelor of Science in Mathematical Modelling and Computation & Environmental Science (two majors)

Bachelor of Science
Analytics

Scan this QR code for course details and graduate stories.

Data doesn't just describe the world – it predicts it. Analytics is where maths meets meaning, a statistics-based subject that turns numbers into insights that shape everything from finance to health. But this isn't just about learning formulas, at AUT you'll apply them to real problems for real organisations. By the time you graduate you'll know how to turn complexity into clarity, patterns into predictions, and data into decisions that matter.

What this major covers

YEAR 1

In Year 1 you'll choose from core science courses that build your foundation in natural, and computer and mathematical sciences. You'll also focus on algebra, calculus and introductory probability and statistics, and start courses from your second major, minor(s) or electives.

YEAR 2

This is where you sharpen your edge; tackling forecasting, statistical inference and data analysis. You'll apply techniques to real-world challenges while balancing courses from your second major, minor(s) or electives.

YEAR 3

Time to prove data works. You'll go advanced – exploring stochastic modelling, multivariate analysis and industry-focused analytics. You'll also complete a final-year project related to analytics. This experience gives you a competitive edge and prepares you for postgraduate study. You'll also finish your courses from your second major, minor(s) or electives.

Career opportunities

- Analytics and insights specialist
- Data analyst
- Data analytics specialist
- Data scientist
- Actuarial analyst
- Financial and marketing analyst
- Portfolio manager
- Performance analyst

"Being able to work on data analytics projects as part of my degree is something I've particularly enjoyed. I've been able to take raw data and transform it into meaningful insights. This led me to learn many coding languages, including Python, Java, C and R. Combining maths, coding and real-world applications has kept me motivated and excited throughout my studies. Once I graduate, my goal is to work in a finance company as a data analyst. I'm excited about analysing trends, risks and performance metrics in the financial sector, which generates large amounts of data. I'm especially interested in using data to assist companies in making well-informed financial decisions and refining their strategies."

Mirasha Fernando
3rd-year student, Bachelor of Science in Analytics with a minor in Data Science

Bachelor of Science

Mathematical Modelling and Computation

Scan this QR code for course details and graduate stories.

The future isn't random, it's mathematical. From predicting climate patterns to optimising supply chains, this major teaches you to model complex systems and design solutions that work. At AUT, you won't just solve textbook problems. You'll build models to address real challenges, using the same computational tools that shape industries worldwide. You'll turn uncertainty into probability and questions into answers that matter.

What this major covers

YEAR 1

In Year 1 you'll choose from core science courses that build your foundation in natural, and computer and mathematical sciences. You'll also study algebra, calculus and introductory probability and statistics, and start your courses from your second major, minor(s) or electives.

YEAR 2

This is where you focus on modelling, differential equations and quantitative decision analysis. You'll balance this with courses from your second major, minor(s) or electives.

YEAR 3

This is where models meet reality. You'll advance into mathematical computation and specialised modelling for business or health and biology. You'll also complete a final-year project related to mathematical modelling and computation. This experience gives you a competitive edge and prepares you for postgraduate study. You'll also finish your courses from your second major, minor(s) or electives.

Career opportunities

- Actuary
- Control buyer/purchasing agent
- Environmental or health modeller
- Industrial engineering scientist/ consultant
- Market and financial analyst
- Mathematician
- Research analyst and associate
- Secondary teacher[1]

1. After an additional year of teacher training

"I've loved gaining hands-on, practical experience during my studies, which I believe will be invaluable for my future career. It's one thing to learn theories in a classroom, but applying them in practical situations has deepened my understanding and boosted my confidence. I've also appreciated the support of the teaching team. My goal is to work in the financial crime risk and forensics industry. I'm drawn to the field of financial crime risk and forensics because it offers an opportunity to solve complex problems and make a meaningful impact by protecting organisations and individuals from fraud. My main goal for my future career is to make a positive impact and use my skills to contribute to society."

Kenneth Atmadja
3rd-year student, Bachelor of Science in Mathematical Modelling and Computation & Networks and Cybersecurity
Certificate in Science and Technology

Certificate in Science and Technology
Overview

Scan this QR code for course details and where this qualification could lead you.

Tech careers start with strong foundations – and this is where you build them. One year to unlock engineering, computing and maths; with support that actually works and people who care about your success. You'll cover maths, programming, physics, statistics, engineering science and academic literacy, and develop the study skills that give you confidence for what's next. This isn't just preparation; it's a real taste of uni life and a smart way to try where you want to go next.

Entry requirements

Minimum entry requirements

- Completion of Year 12
- **NCEA**: 48 level 2 credits or higher, plus eight level 1 credits in at least one subject from Art History, Business Studies, Classical Studies, Drama, Economics, English, Geography, Health Education, History, Media Studies, Physical Education, Social Studies, Te Re Māori or Te Reo Rangatira
- **CAIE**: 60 points on the UCAS Tariff

Useful New Zealand school subjects

Calculus, Mathematics, Physics, Statistics

English language requirements

IELTS (Academic) 5.5 overall with all bands 5.0 or higher; or equivalent.

What this qualification covers

There are three pathways:

- Computing – leading to the Bachelor of Computer and Information Sciences
- Engineering – leading to the Bachelor of Engineering (Honours) and Bachelor of Engineering Technology
- Mathematics – leading to the Bachelor of Science

Your courses set you up for the bachelor's degree you want next. You'll build academic writing and study skills, and select from engineering, computing or maths options that fit your goals. We'll work with you to map the best route forward.

Further study

Complete this programme successfully and you can apply for our bachelor's degrees in engineering, computer and mathematical sciences.

CertScT | AK1311

QUICK FACTS

Level	4
Points	120
Duration	1 year full-time
Campus	City & South
Starts	22 Feb & 12 July 2027

"I knew that engineering wouldn't limit me to one career pathway, and construction is one of the most diverse fields in engineering – from project management and site engineering to quantity surveying. At the time of my research into what university to attend, I realised that AUT understood and taught material relevant to potential employers in the industry. I knew I'd be getting the proper exposure to succeed in the field of construction engineering. My final-year project was one of the highlights my studies. It was an excellent simulation of a real-life construction process. It tested my group and I to really put to test all that we had learnt in the years prior. The satisfaction of handing over such a dynamic project made us proud of all our hard work and effort."

Allan Hakizimana
Site Engineer, The RIX Group, Brisbane
Bachelor of Engineering (Honours) in Construction Engineering
Certificate in Science and Technology

Diploma in Computer and Information Sciences

Scan this QR code for course details and where this qualification could lead you.

Your computing journey starts here – and it starts strong. The Diploma in Computer and Information Sciences is your pathway if you're ready to explore tech but want support as you take the leap. You'll complete the same first-year courses as our bachelor's degree students, backed by extra guidance to help you succeed and discover your options. It's a smart way to try uni, earn a qualification and move straight into Year 2 of the bachelor's degree once you've completed the diploma. We'll be here with advice and support so you can choose the next steps with confidence.

Entry requirements

Minimum entry requirements

- University Entrance OR
- 42 NCEA credits at Level 3, including UE literacy and numeracy, with:
  - 10 credits in each of three approved subjects, OR
  - 12 credits in each of two approved subjects and 14 credits across two further subjects

English language requirements

IELTS (Academic) 5.5 overall with a minimum of 5.5 in Writing and a minimum of 5.0 in other bands, or equivalent.

What this qualification covers

You'll master the essentials – programming, computer networks, IT project management and database design – and build the academic and study skills that give you confidence for what's next. You'll also explore different computing subjects so you can choose the path that feels right for you.

Your courses come from the first year of the Bachelor of Computer and Information Sciences. When you finish, you can cross-credit into Year 2 of the degree, with guidance and support to help you take the next step with certainty.

Further study

- Bachelor of Computer and Information Sciences

Because you study the same first-year courses as our bachelor's degree students, you can move into the second year of the Bachelor of Computer and Information Sciences once you've completed this diploma.

DipCIS | AK2006

QUICK FACTS

Level	5
Points	120
Duration	1 year full-time, part-time available
Campus	City
Starts	22 Feb & 12 July 2027

"I decided to start my studies with a diploma, so that I could spend a year understanding the academic environment and exploring the field of computing before fully committing to it. Because I was a science student in high school, moving into computer science felt like a big change. The diploma gave me the opportunity to transition gradually, and see if this was the right path for me. The practical subjects and the well-structured content made the learning process engaging and easier to understand. AUT's strong reputation for excellence and the focus on practical learning is why I selected this university. I genuinely liked the field of computing, which motivated me to continue pursuing it further, and I've now moved into the second year of the Bachelor of Computer and Information Sciences."

Hafsa Suhail Naqvi
2nd-year student, Bachelor of Computer and Information Sciences in Software Development
Diploma in Computer and Information Sciences

Diploma in Engineering

Scan this QR code for course details and where this qualification could lead you.

Not sure if engineering is your future? Start here. AUT's Diploma in Engineering gives you the same first-year courses as our bachelor's degrees, plus additional academic and student support to help you thrive. In one year you'll explore different engineering disciplines, build practical skills and earn a qualification that matters. When you're ready, step straight into Year 2 of the Bachelor of Engineering Technology or Bachelor of Engineering (Honours) – and still finish your degree in three or four years. Your journey starts with confidence, care and a community that backs you.

Entry requirements

Minimum entry requirements

- University Entrance OR
- 42 NCEA credits at Level 3, including UE literacy and numeracy, with:
  - 10 credits in each of three approved subjects, OR
  - 12 credits in each of two approved subjects and 14 credits across two further subjects

English language requirements

IELTS (Academic) 5.5 overall with a minimum of 5.5 in Writing and a minimum of 5.0 in other bands, or equivalent.

What this qualification covers

You'll build a strong foundation in engineering – core concepts, sustainable design and the maths that solves real challenges. At the same time, you'll grow the academic and study skills that give you confidence for what's next. You'll also get the chance to explore different engineering disciplines so you can discover the one that feels right for you.

Your courses come from the first year of our Bachelor of Engineering (Honours) or Bachelor of Engineering Technology. When you finish, you can cross-credit into Year 2 of our engineering degrees and choose the major that feels right for you. We'll walk alongside you to plan the path that gets you there.

Further study

- Bachelor of Engineering (Honours)
- Bachelor of Engineering Technology

Because you study the same first-year courses as our bachelor's degree students, you can move into the second year of our engineering degrees once you've completed this diploma.

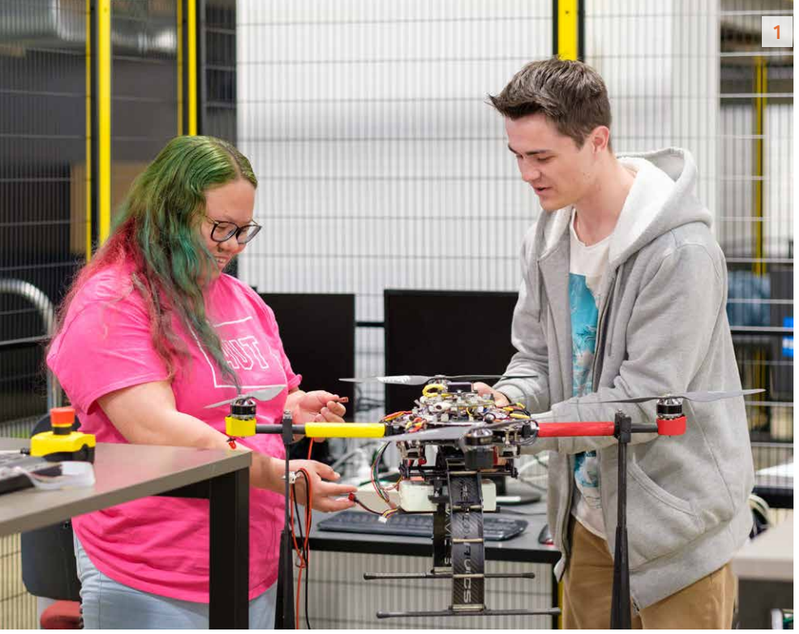
DipEng | AK2005

QUICK FACTS

Level	5
Points	120
Duration	1 year full-time, part-time available
Campus	City
Starts	22 Feb & 12 July 2027

"I had friends tell me that AUT provides more support for students and how well the university prepares students for real-world applications. I wasn't entirely confident if engineering is something I should pursue, so I started my studies with the Diploma in Engineering instead of the bachelor's degree to see if it was for me – and it was. I'd recommend studying at AUT because of all the student support and the many resources you can take advantage of. If you're coming to AUT straight from high school, the transition is very easy. The City Campus itself is very lively, and there's always something going on for students to enjoy. Through your lectures, group projects, tutorials and the events that happen throughout campus you'll find an amazing community."

Natassha Joby
2nd-year student, Bachelor of Engineering (Honours) in Electrical and Electronic Engineering
Diploma in Engineering



1 & 6 Opportunities to apply what you've learnt are an important part of our programmes 2 The City Campus is AUT's biggest campus and is within walking distance to cinemas, gyms and libraries 3 These robots are helping AUT researchers explore how humanoid robots learn, move and interact safely with people 4 You'll have access to modern computing labs 5 The Ngā Wai Hono (WZ) building is home to engineering and computing at AUT and is a 'living lab'

Graduate Diploma in Science
Graduate Certificate in Science

Scan this QR code for course details and where these qualifications could lead you.

Your next career move doesn't need years, just the right programme. The Graduate Diploma and Graduate Certificate in Science give you advanced mathematical skills fast. Designed for professionals – including secondary school teachers – these programmes help you pivot quickly, sharpen your edge and apply the latest methods where they count. Graduate prepared to solve real problems with real impact.

Entry requirements

Minimum entry requirements

- A bachelor's degree OR
- Relevant professional qualification or experience approved by the dean (or representative) to be equivalent to a bachelor's degree

English language requirements

IELTS (Academic) of 6.5 overall with all bands 6.0 or higher; or equivalent.

What these qualifications cover

Graduate diploma

You'll choose courses from the Bachelor of Science to make up 120 points, with at least 75 points at level 7. You can include 30 points from another bachelor's degree if approved by your programme leader – so you can tailor your learning to your next move.

Graduate certificate

You'll choose courses from the Bachelor of Science to make up 60 points, with at least 45 points at level 7.

Graduate Diploma in Science
GradDipSc | AK1042

QUICK FACTS

Level	7
Points	120
Duration	1 year full-time, part-time available
Campus	City
Starts	22 Feb & 12 July 2027

Graduate Certificate in Science
GradCertSc | AK1043

QUICK FACTS

Level	7
Points	60
Duration	½ year full-time, part-time available
Campus	City
Starts	22 Feb & 12 July 2027

Graduate Diploma in Computer and Information Sciences

Graduate Certificate in Computer and Information Sciences

Scan this QR code for course details and where these qualifications could lead you.

Computing careers don't always start with a three-year degree – and that's where these programmes come in. Both options are built for growth and open doors to a sector that never stands still. You'll learn from experts in software development, data analytics, cyber security and IT project management, and choose courses from the Bachelor of Computer and Information Sciences with guidance from our academic team. Every course is hands-on and future-focused, so you graduate ready to make an impact – not just write code.

Entry requirements

Minimum entry requirements

- A bachelor's degree OR
- Relevant professional qualification or experience approved by the dean (or representative) to be equivalent to a bachelor's degree

English language requirements

IELTS (Academic) of 6.5 overall with all bands 6.0 or higher; or equivalent.

What these qualifications cover

Graduate diploma

You'll choose courses from the Bachelor of Computer and Information Sciences to make up 120 points, with at least 75 points at level 7. You can include 30 points from another bachelor's degree if approved by the programme leader – giving you flexibility to shape your study around your goals.

Graduate certificate

You'll choose courses from the Bachelor of Computer and Information Sciences to make up 60 points, with at least 45 points at level 7. You can include 15 points from another bachelor's degree with programme leader approval, so you can tailor your learning to what matters most.

Graduate Diploma in Computer and Information Sciences

GradDipCIS | AK3698

QUICK FACTS

Level	7
Points	120
Duration	1 year full-time, part-time available
Campus	City
Starts	22 Feb & 12 July 2027

Graduate Certificate in Computer and Information Sciences

GradCertCIS | AK3756

QUICK FACTS

Level	7
Points	60
Duration	½ year full-time, 1 year part-time
Campus	City
Starts	22 Feb & 12 July 2027

The 'Treehouse' in WG building on AUT's City Campus

Overview of postgraduate qualifications

Scan this QR code for more details about postgraduate programmes.

Don't just take the next step – take a leap. Postgraduate study at AUT is where you push past limits and turn ambition into action. Our range of postgraduate programmes helps you advance your career through research that actually matters. You'll work with academics who are active researchers leading their fields, and our research institutes and centres connect you to projects that drive real change.

All study areas

Master of Philosophy

Pursue advanced independent research with this one-year research-only master's degree. You'll work independently, supervised by engineering, computer or mathematical sciences staff who know the field inside out. It's also your pathway to doctoral research if that's where you're headed.

Doctor of Philosophy

Lead the conversation with a Doctor of Philosophy (PhD) – a thesis-based research degree leading to advanced knowledge in a specialist area. It's the highest qualification universities offer. You'll contribute original thinking to engineering, computer or mathematical sciences that meets recognised international standards. Working closely with a supervisor, you'll prepare a research thesis that's then examined by independent experts applying contemporary international standards.

Engineering

Postgraduate Diploma and Postgraduate Certificate in Engineering

Engineering doesn't stand still, and neither should you. These coursework-based programmes give you advanced knowledge in mechanical, electrical or electronic engineering. They're also a smart pathway for Bachelor of Engineering Technology graduates aiming for the Master of Engineering.

Master of Construction Management

Modern construction projects need more than hard hats – they need sharp minds. This master's degree was built with industry leaders to meet demand for professionals who can manage complex builds. It's designed for construction professionals like engineers, quantity surveyors and architects, and sets you up to lead projects that shape the way we live and work.

Master of Engineering

Specialist knowledge opens doors. The Master of Engineering builds on what you know and takes it further, sharpening your research skills and deepening your expertise. Choose a research pathway with a thesis or a coursework pathway with a research project; both designed to push your thinking and your career forward.

Master of Engineering Project Management

Engineering projects don't run themselves. This master's degree equips practising project managers for senior roles and gives recent graduates the business and leadership skills modern engineering companies expect. It's about managing people, budgets and timelines – and doing it well.

Computer and Mathematical Sciences

Postgraduate Diploma and Postgraduate Certificate in Computer and Information Sciences

Take your tech skills up a level. These coursework-based programmes draw on courses from the Master of Computer and Information Sciences, focusing on advanced analytical, planning and critical thinking in specialist computing fields. They're a solid step towards master's-level study.

Postgraduate Diploma and Postgraduate Certificate in Science

Numbers matter – and so does what you do with them. These programmes take you deeper into applied mathematics, analytics and applied probability, building advanced knowledge and practical skills. They're coursework-based and designed as a clear pathway to master's-level research, so you can turn theory into impact.

Master of Analytics

Data drives decisions – and the right skills put you in demand. This master's degree meets global need for professionals who can organise, store and make sense of data. You'll master advanced analytics, database tools and the latest techniques for statistical modelling and mathematical simulation. It's designed for graduates and industry professionals ready to turn insight into impact and lead in a data-driven world.

Master of Computer and Information Sciences

Looking to lead in tech? This master's degree doesn't just advance your qualification – it gives you the confidence to own complex projects and drive innovation. At its core is a major research thesis, building the judgement to manage and lead ICT teams. It's your next step to doctoral study, and to shaping the future of technology.

Master of Cyber Security and Digital Forensics

Cyber threats don't wait – and neither should you. This master's degree puts you on the frontline of digital defence, teaching you how to secure systems and recover evidence from compromised devices. You'll explore the tools to analyse storage media and networks, and protect organisations from attackers. It's where tech meets trust, and you lead the charge.

Master of IT Project Management

IT projects fail without strong leadership and project management. This master's degree gives you the skills to design, implement and manage software development projects from start to finish. You'll learn to plan, lead teams and manage risk, then apply it all in a practical project that mirrors industry challenges. Graduate ready to deliver – and to lead.

Master of Science

Research that matters starts here. This master's degree focuses on original work in applied mathematics, analytics, applied probability, modelling or astronomy. You'll work alongside active researchers and write a thesis on a topic shaping the future of computer and mathematical sciences – and your expertise will set you up to lead innovation in research, industry or the next big idea.

Whakauru whare wānanga

UNIVERSITY ENTRANCE

University admission to AUT bachelor's degrees

University admission to AUT bachelor's degrees

If you're a New Zealand citizen or resident – or an international student finishing high school here – you'll need University Entrance to start a bachelor's degree. Some programmes ask for extra steps like certain subjects or an interview, so check what applies to you.

Admission categories

You may be granted University Entrance under:

- NCEA University Entrance
- Ad Eundem Statum admission (at an equivalent level) – this includes Cambridge Assessment International Education (CAIE) and International Baccalaureate Diploma Programme (IB)
- Discretionary Entrance
- Special Admission

To find out more about entry requirements, including entry requirements for international students, scan the QR code on the opposite page.

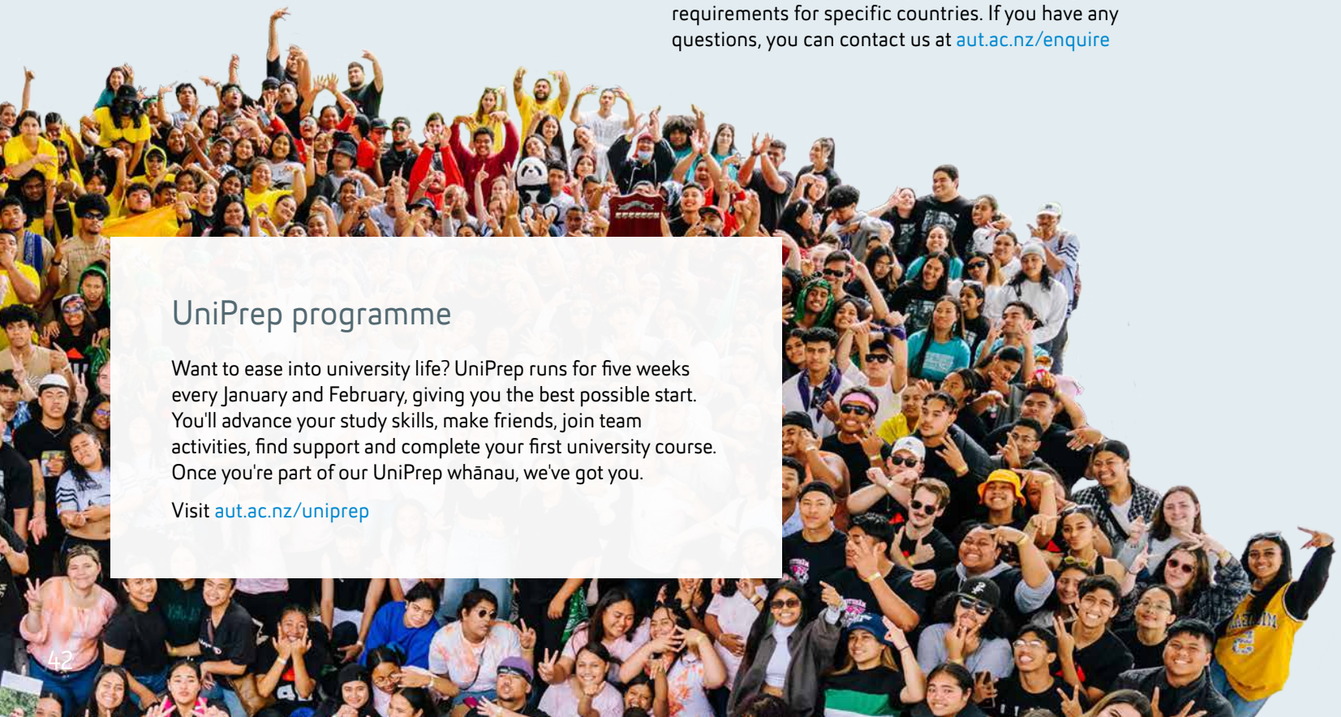
English language requirements

If you don't have English as your first language, you may have to show evidence of your English language skills. Visit aut.ac.nz/englishrequirements for details about English language testing and recognised English tests.

International students

Contact us for information regarding studying at AUT if you're not a citizen or permanent resident of New Zealand or Australia, or a citizen of the Cook Islands, Niue or Tokelau islands.

Visit aut.ac.nz/int/entryrequirements for entry requirements for specific countries. If you have any questions, you can contact us at aut.ac.nz/enquire



UniPrep programme

Want to ease into university life? UniPrep runs for five weeks every January and February, giving you the best possible start. You'll advance your study skills, make friends, join team activities, find support and complete your first university course. Once you're part of our UniPrep whānau, we've got you.

Visit aut.ac.nz/uniprep

NCEA university entrance

You must achieve all of the below:

Level 3 (60 credits)	UE Literacy	Numeracy
Within the 60 credits, you need to at least achieve the below:		
14 credits in approved subject 1	5 Reading credits (Level 2 or 3)	10 Numeracy credits at Level 1, 2 or 3
14 credits in approved subject 2	5 Writing credits (Level 2 or 3)	
14 credits in approved subject 3		
18 credits from any Level 3 standards		

To find out more visit www2.nzqa.govt.nz/ncea/understanding-secondary-quals/university-entrance

This guide is for students in Year 10 or above in 2026. If you're in Year 9 or below, there are proposed curriculum changes that may change this.

Getting UE through CAIE or IB? Here's what you will need:

CAIE		
120 points on the New Zealand CAIE Tariff at A or AS level in any subjects that are broadly equivalent to NCEA approved subjects D or above in at least 3 different subjects (excluding Thinking Skills)	E or above in English Language, Language and Literature in English or Literature at AS or A level	D or above in IGCSE or GCSE Mathematics, or any mathematics subject passed at AS or A level
IB[1]		
IB Diploma with a minimum 24 points	Literature or language and literature (SL or HL) – IB Group 1, with English as the language	Any mathematics subject – IB Group 5

1. New Zealand residents who have taken IB but have not been awarded the diploma may apply for discretionary entrance.

Ngā utu whakauru, ngā karahipi

FEES & SCHOLARSHIPS

Your education is an investment worth making. Here's what you need to know about AUT tuition fees and how to fund your degree – from scholarships and student loans to allowances and financial support when life gets complicated.

To give you an idea of approximate costs, the 2026 tuition fees are shown below (based on full-time study and completing 120 points per year). All fees are in NZ dollars and include GST. The 2027 tuition fees will be advertised on aut.ac.nz/fees as soon as they have been set. You may also need to pay additional fees for course materials or elective courses (check with your faculty if there are additional fees for your programme).

Domestic student tuition fees

Undergraduate programmes	
Fee (per year):	$4,706.80 (for 60 points)–$11,852.60 (for 120 points)[1] ($4,096–$10,631 tuition fees + $610.80–$1,221.60 student services levy)

1. Part-time students pay a proportion of the fee based on the number of academic points they are studying.

International student tuition fees

Undergraduate programmes	
Fee (per year):	$21,310.80 (for 60 points)–$48,921.60 (for 120 points) ($20,700–$47,700 tuition fees + $610.80–$1,221.60 student services levy)

Please note that you must pay your fees in full by the date specified on your fees invoice.

To find out more about fees call **+64 9 921 9779** or **0800 AUT AUT** (0800 288 288).

Student loans and allowances[1]

If you're studying full-time as a domestic student, you could get a student loan or allowance through StudyLink to help with your costs. We know sorting finances can feel stressful, so start early – the process can take time. The good news? You don't have to wait until your AUT enrolment is complete.

To find out more call **0800 88 99 00** or visit studylink.govt.nz

Free fees for your university study[1]

If you're a domestic student, you might be able to get your final year of full-time study fees-free. To check if you're eligible for fees-free study visit aut.ac.nz/fees

1. Domestic students only, not available to international students.

Financial assistance

We know life doesn't always go to plan and money worries can make study feel tough. That's why we're here with practical help – from grocery or fuel vouchers to support with those unexpected bills.

StudyLink

Visit studylink.govt.nz for tools, tips and information to help you plan and understand the costs you will have while studying.

Scholarships and awards

Scholarships can cover anything from accommodation costs to full tuition – and they're worth applying for. AUT offers scholarships at every stage of study, including ones specifically for school leavers. Some reward academic achievement, others recognise leadership, cultural contribution, community involvement or sport. Don't assume they're not for you.

For the full list of what's available, application forms and closing dates visit aut.ac.nz/scholarships

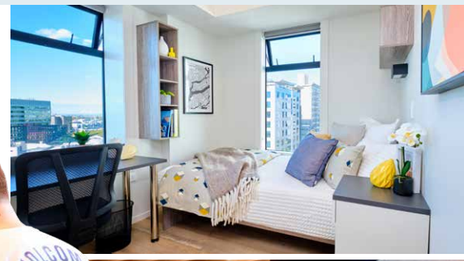
Tips for applying

- Start early – deadlines can be months ahead
- Apply for more than one – cast your net wide
- Check you meet the requirements first
- Get someone to review your application
- Tell your story – show who you are, not just your grades

Accommodation

Looking for a place that feels like home? Our student accommodation is modern, secure and just minutes from the AUT City or North Campus. It's so much more than a room – it's a supportive community where you can make friends and settle in, whether you're a first-year or a postgraduate student, new to Auckland or living away from home for the first time.

Visit aut.ac.nz/accommodation



He pēhea te tono

HOW TO APPLY

Below is the step-by-step guide to the application process.
For more information visit aut.ac.nz/apply

1 APPLY EARLY

Places often fill up. Get your application in well before semester starts – earlier is always better.

APPLYING FOR 2027

- Semester 1
  – apply by 7 December 2026
- Semester 2
  – apply by 3 May 2027

2 COMPLETE THE APPLICATION FORM

- Apply online
- Indicate your programme(s) of choice and major (if known)

International students can also apply using an AUT approved international agent. For a list of AUT registered agents visit aut.ac.nz/international-agents

SUBMIT YOUR APPLICATION

WE ACKNOWLEDGE YOUR APPLICATION

You'll get an acknowledgement email explaining how to track your application. If we need more information, we'll reach out.

WE ASSESS YOUR APPLICATION

- We assess your application to ensure you have met the entry criteria for the programme(s) you are applying for
- We consider your academic history and relevant experience to ensure you can succeed in your programme
- We let you know if your application has been successful

POSSIBLE OUTCOMES

CONFIRMED We would like to offer you a place to study at AUT

PROVISIONAL You have met some of the criteria for entry to your chosen programme of study and we would like to offer you a provisional place to study at AUT. If you don't meet the rest of the requirements, then this offer will be withdrawn

CONDITIONAL You have to meet the conditions and approvals listed in your conditional offer to be able to secure a formal offer of place

DECLINED If you don't meet the entry requirements or all places are taken, we may offer you an alternative programme

3 ACCEPT YOUR OFFER

It's important that you respond as soon as possible, particularly if you've been offered a place in a programme with limited places.

Once you've accepted your offer of place, we'll let you know how to enrol in the courses for your programme, and you can start to get excited about joining AUT.

Ready to apply?
apply.aut.ac.nz

Ētahi atu kōrero

FIND OUT MORE

aut.ac.nz

Need some help?

Visit aut.ac.nz/enquire, ask us your question and we'll call you back. Or phone **0800 AUT AUT** (0800 288 288) to speak to one of our friendly advisors. We can help with anything you need – questions, course counselling sessions, campus tours.

Campuses

City Campus
55 Wellesley Street East, Auckland Central

North Campus
90 Akoranga Drive, Northcote, Auckland

South Campus
640 Great South Road, Manukau, Auckland

Connect with us now:

AUT LIVE

Join us at our open day, AUT LIVE, on the City Campus and see everything AUT has to offer to help you make an educated decision about university study.

aut.ac.nz/live

ENGINEERING, COMPUTER & MATHEMATICAL SCIENCES 2027

AUT

0800 AUT AUT (0800 288 288)
Auckland University of Technology
Auckland, New Zealand
aut.ac.nz

Enquire now
aut.ac.nz/enquire

Connect with us now:

MIX
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We print using BIO-inks that contain materials that are based on renewable resources including wood resin (rosin, colophony), and vegetable oils, linseed oil and soybean oil and the printing company is FSC certified.

12/2025 – 7,700