Waipapa Taumata Rau
University of Auckland

Undergraduate Prospectus 2027

Engineering and Design

2027

Architecture
Design
Engineering
Urban Planning

No.1
New Zealand University[1]

No.1
Graduate Employability[2]

Top 50
in the world for 5 subjects[3]

Ko Waipapa Taumata Rau mātou, e mihi nei,
e karanga nei ki te marea e hiahia ana
ki te kai i te mātauranga.
Nau mai, haere mai, herea mai tōu waka
ki te pou whakairo, He Taumata Rau.

We are Waipapa Taumata Rau, we greet,
we call to the many who desire the
sustenance of knowledge.
Welcome, come forth and fasten your vessel
to the carved post, He Taumata Rau.

Nau mai, haere mai

A warm welcome to New Zealand's highest ranked university.

Join us in shaping a better tomorrow at New Zealand's leading faculty for engineering, architecture, and the built environment[1].

With innovative and creative abilities, engineers, architects, urban planners, and designers are vital in addressing some of the most pressing issues faced by our increasingly complex world.

As we seek to transition our society to green energy, build more resilient cities in the face of climate change, and reduce the waste we produce, the world looks to us for answers.

At New Zealand's leading faculty for engineering, architecture, and the built environment[1], you'll be surrounded by some of the world's best practitioners in their disciplines – people who are excited to push boundaries, improve lives, and learn from each other.

You will have access to first-rate facilities, located across the heart of Auckland City. Our labs, studios and workshops, spacious student areas, and Multi-Disciplinary Learning Spaces are all built with you in mind.

After graduating, you will also be highly sought after by graduate employers, both in New Zealand and overseas.

And so, on behalf of our faculty, I invite you to join us in taking your next steps in changing our world for the better.

Whakauru mai ki tō mātou kāhui ako.

Together, we can make a positive difference in our world.

RICHARD CLARKE
Manukura Te Herenga Auaha
Dean, Faculty of Engineering and Design
Waipapa Taumata Rau | University of Auckland

[1] QS World University Rankings by Subject 2025

Cover attributions:
[1] Times Higher Education 2025; and QS World Rankings 2025, 65th Worldwide
[2] Times Higher Education: Global Employability University Ranking 2026
[3] QS World University Rankings by Subject 2025

Hoahoa Whare
Architectural Studies

Quick facts – BAS

Full-time: 3 years
Points per degree: 360
Taught at: City Campus
Application closing date:
8 December 2026
Classes start: 1 March 2027

Te Pare School of Architecture and Planning is New Zealand's leading tertiary educator in the fields of architecture and the built environment[1]. Today's architects work in a rapidly expanding domain with constantly shifting boundaries. We offer degree programmes that reflect these evolving requirements and ensure you are well-equipped to begin a rewarding career, either in architecture or in a broad range of other design-based roles.

Why study with us

- Exciting studio sessions in dedicated studio spaces, real-world case studies, and intriguing future-speculation projects will boost your creative development.
- Research-based teaching, combined with leading edge technology, will invigorate your learning.
- Vibrant networking with practising architects will enliven your studies and build valuable contacts.
- Opportunities for overseas study and internships will expand your choices.

Programme highlights

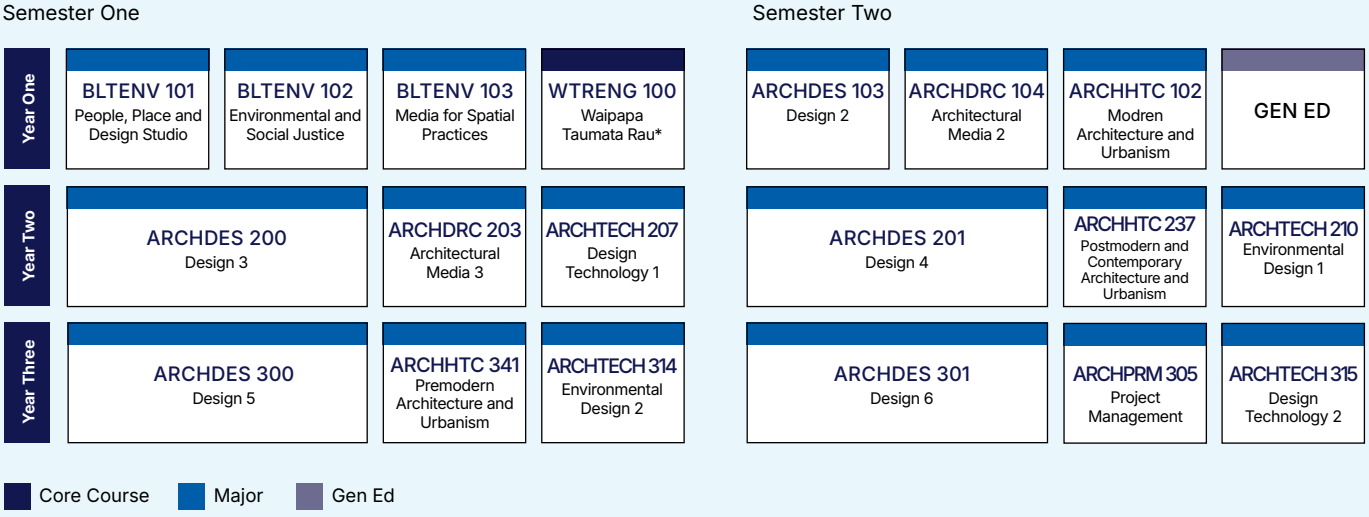
The BAS offers a general introduction to architecture and related aspects of design. It forms the first part of a two-tiered programme as it's a prerequisite degree for your entry into the professional architecture qualification, the Master of Architecture (Professional).

Undergraduate study with us reflects professional life. You'll undertake a stimulating and challenging variety of design projects in studio settings.

You'll also gain from core courses in architectural media, the history of architecture and urbanism, architectural technology, environmental design, and professional studies.

auckland.ac.nz/bas

Sample BAS degree structure



[1] *QS World University Rankings by Subject 2024*
** Waipapa Taumata Rau: Engineering and Design for the Built Environment in Aotearoa New Zealand*

Watch Logan Bow talk about his journey into Architecture.

Career possibilities

- Architect[1]
- Architectural historian or writer
- Building industry consultant
- Digital design professional
- Heritage or cultural consultant
- Interior designer
- Project manager

[1] Following successful completion of an MArch(Prof) programme and professional registration.

I wanted to help create spaces that were inclusive, equitable, and diverse. Studying Architecture felt like the perfect way to turn these ideas into reality – designing spaces that foster real connection.

"There have been many highlights during my studies – for example, completing Design projects rooted in culture and community, exploring Tongan and Pacific ideas of space and structure, and seeing how they can blend with modern construction methods.

"I've been a part of the Students of Urban Planning and Architecture (SUPA) association, as well as the Dean's Leadership Programme. Both have helped me connect with students across Architecture, Design, Engineering, and Urban Planning – and have taught me how important teamwork and collaboration are in creating sustainable environments.

"I hope to become a registered architect and continue growing in the way I design for culture, sustainability, and community. My goal is to create spaces that reflect identity and belonging, especially for Pacific communities in Aotearoa and the islands."

Michel Tuakalau
Student: Bachelor of Architectural Studies

Hoahoa Design

Quick facts – BDes

Full-time: 3 years
Points per degree: 360
Taught at: City Campus
Application closing date: 8 December 2026
Classes start: 1 March 2027
Conjoint options: Arts, Commerce, Engineering (Honours), Science, Fine Arts

Designers are strategists, leaders, analysts and makers who envision and create the future of service, experience, systems and products. Pursue a Bachelor of Design at one of the world's leading universities for sustainable impact[1] and learn how to use the transformative power of design. Our Design Lab technicians provide hands-on support with fabrication, electronics, and making. They run safety inductions, maintain specialist equipment, and are available to help you bring technical aspects of your projects to life.

Why study with us

- Dedicated studio spaces
- Technologies and materials for prototyping and experimenting
- The opportunity to learn from leading academics with diverse design backgrounds
- Links with international industry leaders and emerging design entrepreneurs
- A flexible degree structure that allows personalised learning
- Overseas opportunities for study, internships and other experiential learning

Programme highlights

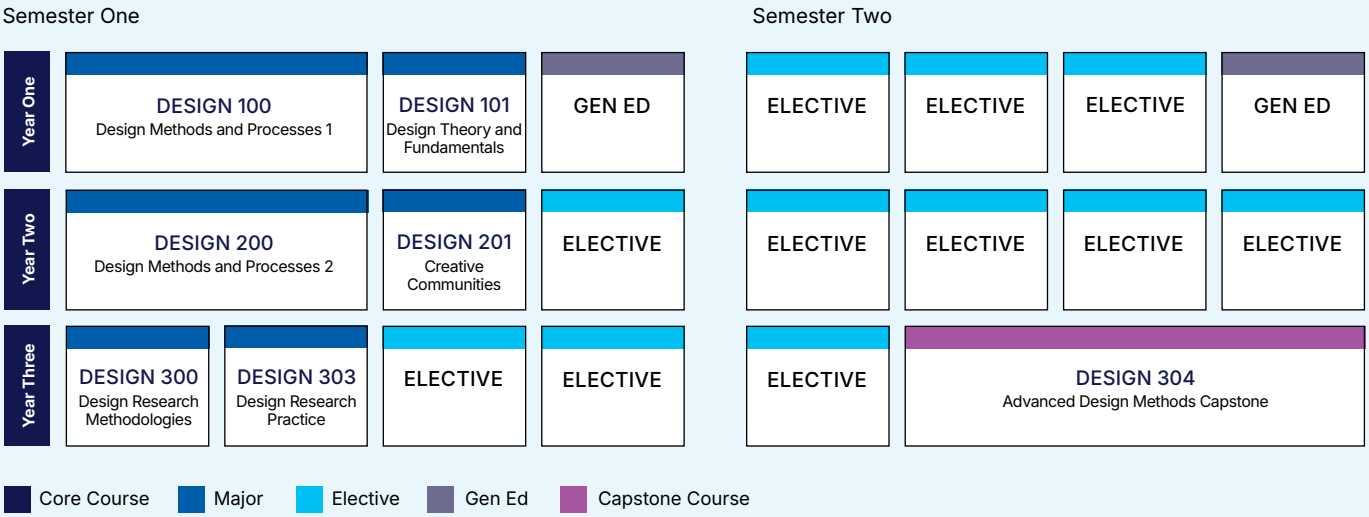
From your first year, you will apply design methods and processes, which increase in complexity during your study as you develop your specialisation in design and refine your skills.

Your hands-on work will enable you to create a portfolio and design profile. Throughout the process, you will investigate how social, ethical, environmental, and economic factors influence design decisions, and you will learn how to accommodate these factors in your design interventions.

You will choose your electives from four design themes – Local Community Practices, Global Challenges, Business, and Emerging Technologies. In your final year, you will carry out a capstone design project, working from the initial discovery phase through to implementation.

auckland.ac.nz/bdes

Sample BDes degree structure



[1] *Ranked 28th in the world for sustainability in Times Higher Education University Impact Rankings 2025*

Watch Matthew Lei talk about his journey into Design.

Career possibilities

- Motion designer
- Product designer
- Growth designer
- Social innovation designer
- Community co-designer
- Environmental design researcher
- Immersive content designer
- Content strategist

“I’ve always loved being creative. When it came time to choose what to study, Design just felt right. It’s the perfect environment to explore both creative and technical aspects, and to be part of a community that pushes new ideas forward. The University of Auckland is a place that values creativity, innovation, and real-world problem-solving.

“I love the idea of designing things that help people and make their lives easier. I just want to keep learning, experimenting, and building meaningful things. Being involved in numerous clubs has also been a significant part of my university experience; clubs are a great way to meet people.

“If you’re curious about Design, dive in! You don’t need to have it all figured out; start creating and exploring from the things that inspire you. Design is this amazing mix where you can try new things, make mistakes, and grow.”

Sachini Weerasinghe
Student: Bachelor of Design and Science conjoint

Mātai Pūkaha Engineering

Quick facts – BE(Hons)

Full-time: 4 years
Points per degree: 480
Taught at: City Campus
Application closing date:
8 December 2026
Classes start: 1 March 2027
Conjoint options: Arts, Commerce, Design, Music, Science, Global Studies

Engineering underpins every aspect of our daily lives, from nanotechnologies in food, fabrics and smartphones to awe-inspiring skyscrapers and intriguing medical robotics. Our students and staff energetically pursue technological solutions to global challenges. A Bachelor of Engineering (Honours) degree will prepare you to problem solve and innovate no matter where you take it.

Why study with us

- Real-world projects are central to our balance of theory and practice.
- World-class research centres, equipment and study facilities allow you to gain maximum value from your efforts.
- Our specialisations are accredited by Engineering New Zealand and recognised internationally.
- We offer exciting prospects in a high-demand profession with excellent earning potential.
- We provide rich opportunities for overseas study, internships and experiential learning.

Programme highlights

In your first year (Part I) you will study engineering and professional fundamentals.

These include electrical and digital systems, engineering biology and chemistry, engineering computation and software development, engineering design, engineering mechanics, materials science, and mathematical modelling.

The remainder of your programme will vary depending on the specialisation you enter.

You'll complete a 30–40-hour workshop practice course in Part II. This will provide hands-on experience with tools relevant to your specialisation. You will also complete 800 hours of practical work experience throughout your degree.

auckland.ac.nz/behons

Sample BE(Hons) degree structure

	Semester One				Semester Two				
Part I	GEN ED	ENGGEN 121 Electrical and Digital Systems	ENGSCI 111 Principles of Engineering Design	WTRENG 100 Waipapa Taumata Rau*	CHEMMAT 121 Materials Science	ENGGEN 131 Intro to Engineering Computation and Software Development	ELECTENG 101 Electrical and Digital Systems	ENGGEN 115 Principles of Engineering Design	ENGGEN 199 English Language Competency**
Part II	ENGGEN 204 Professional Skills and Communication	ENGSCI 211 Mathematical Modelling 2	SPECIALISATION COURSE	SPECIALISATION COURSE	SPECIALISATION COURSE	SPECIALISATION COURSE	SPECIALISATION COURSE	SPECIALISATION COURSE	ENGGEN 499 Workshop Practice**
Part III	ENGGEN 303 Managing Projects and Innovation	ENGSCI 311 Mathematical Modelling 3	SPECIALISATION COURSE	SPECIALISATION COURSE	SPECIALISATION COURSE	SPECIALISATION COURSE	SPECIALISATION COURSE	ELECTIVE	ENGGEN 499 Practical Work
Part IV	ENGGEN 403 Managing a Business	SPECIALISATION COURSE	FINAL YEAR PROJECT		ELECTIVE	ELECTIVE	ELECTIVE	ELECTIVE	

Common Core Course | Core Course | Specialisation course | Elective | Gen Ed | Final Year Project | Compulsory degree components

** Waipapa Taumata Rau: Engineering and Design for the Built Environment in Aotearoa New Zealand*
*** Can be taken either in Semester One or Two*

Our 10 Engineering specialisations

Watch Natalia and Bernice talk about their journey into Engineering

We offer a variety of specialisations that mirror the diversity of our five departments, the ever-evolving engineering profession, and our increasingly interdisciplinary research. Our 10 Bachelor of Engineering (Honours) specialisations are accredited by Engineering New Zealand, a signatory of the Washington Accord. This makes the BE(Hons) a recognisable Engineering qualification in many countries.

Department of Chemical and Materials Engineering

- Chemical and Materials Engineering

Department of Civil and Environmental Engineering

- Civil Engineering
- Structural Engineering

Department of Engineering Science and Biomedical Engineering

- Biomedical Engineering
- Engineering Science

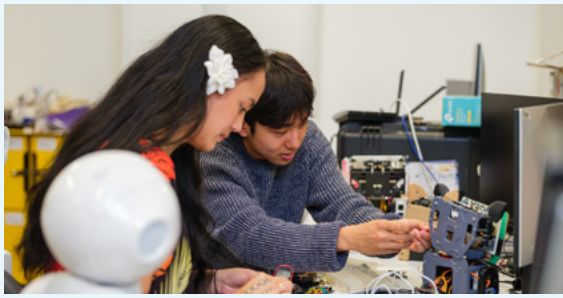
Department of Electrical, Computer, and Software Engineering

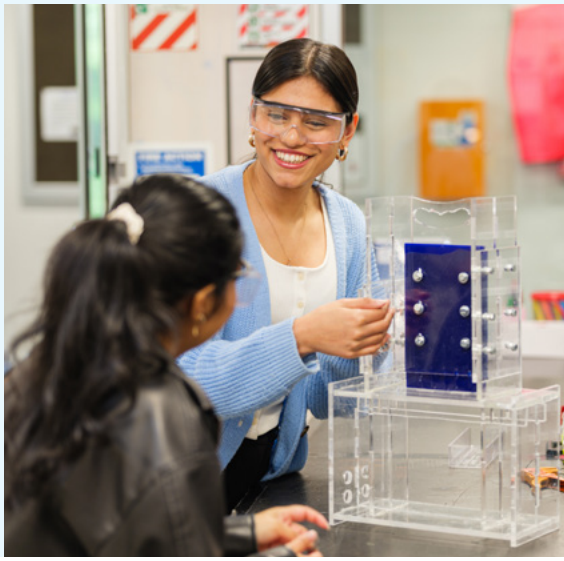
- Computer Systems Engineering
- Electrical and Electronic Engineering
- Software Engineering

Department of Mechanical and Mechatronics Engineering

- Mechanical Engineering
- Mechatronics Engineering

auckland.ac.nz/engineering-specialisations





Pūhanga Matū
Chemical and Materials Engineering

In facing future global challenges, we need transformative change in the way we utilise and process materials, energy, and data. By studying Chemical and Materials Engineering, you will develop as an engineer who can help drive change towards a more sustainable future.

Learn how to translate innovations into real-world applications through food engineering, industrial waste, resource recovery, and materials for sustainable energy production. Explore benchtop discoveries that become practical technologies and processes for industry.

> I chose to study Engineering to gain a deeper understanding of how the products we enjoy every day are made and how their chemical composition affects their properties.

"I always enjoyed physics and mathematics in high school, so Engineering at the University of Auckland seemed like a natural progression. The Chemical and Materials specialisation encompasses a wide range of exciting fields of work.

"In high school, I attended Open Day, which was an eye-opening experience. I was used to smaller classes and a structured school environment as opposed to the wide-open campus feel with so many people from around the world.

"It was through clubs that I met new people and gained a Fonterra internship. Your time at University is what you make it. If you attend class, join clubs, and stay on top of your degree, it can be incredibly rewarding and, for me, one of the best parts of my life."

Jack Rose
Student: Bachelor of Engineering (Honours) in Chemical and Materials Engineering

Career possibilities

- Renewable energy engineer
- Environmental engineer
- Sustainability engineer
- Food and beverage process engineer
- Forensic engineering
- Materialists engineer
- Aerospace materials engineer
- Automotive materials engineer

Pūhanga Metarahi
Civil Engineering

Civil engineers shape the world that we live in, making modern life possible. They work across all areas of infrastructure, including transportation networks, coastal protection, water and wastewater systems, foundations, tunnels and dams.

Civil engineers are increasingly tasked with creating sustainable, resilient solutions to infrastructure challenges driven by population growth, climate change, and natural disasters. Studying Civil Engineering, you will learn about geotechnical, hydraulic, transportation and environmental engineering, as well as construction and project management.

Career possibilities

- Engineering consultant
- Contractor
- Project manager
- Asset manager
- Insurance advisor
- Management consultant
- Researcher

> I love problem-solving, and engineering is about solving problems. The best part is how broad it is. There are so many different types of engineering, providing a diverse range of careers that could appeal to anyone.

"The flexibility of programmes at the University of Auckland allows me to study my Bachelor of Engineering (Honours) alongside an Arts degree as a conjoint. This means that I have the opportunity to broaden my skills through studying something different.

"I chose Civil Engineering as my specialisation; it sets you up with the skills to work on the defining problems of our generation: from transport to housing to climate change. It has never been more relevant than in the present day and will play a vital role in shaping the future world we live in.

"Keep an open mind about where engineering can take you. During their first year, many people discover new interests beyond what they originally envisioned."

Corin Fenwick Rose
Student: Bachelor of Arts / Bachelor of Engineering (Honours) conjoint in Civil and Environmental Engineering

Pūhanga Rangaranga
Structural Engineering

Structural engineers are essential to our built environment, utilising principles of mechanics and materials to design structures that can withstand numerous loading conditions. They work on the design, analysis, construction, and maintenance of residential, industrial and commercial buildings, bridges, and other infrastructure.

Structural engineers also study geotechnical engineering and other civil engineering disciplines that facilitate collaborative work. Their technical knowledge enables them to design our built environment to resist the forces of nature and ensure community safety.

Career possibilities

- Engineering consultant
- Contractor
- Project manager
- Asset manager
- Insurance advisor
- Management consultant
- Researcher

“

I’ve always loved buildings and the construction environment. I wanted to do something that combined creativity, problem-solving, and a real-world impact.

“My interest in how infrastructure affects our communities led me to choose civil and structural engineering. I love that it empowers you to design and build things that humans use daily, from bridges to buildings. It’s a specialisation where you can see the outcome of your work standing there physically, which is truly rewarding.

“There is a strong focus on creativity, collaboration, and designing something of value. What keeps you motivated is that feeling of fulfilment and purpose. I want to help design systems and infrastructure that make cities more efficient and environmentally friendly.

“If you’re curious about engineering, go for it! Ask questions, participate actively in projects, and take every opportunity to learn. Being a part of the clubs community has made my university experience truly memorable.”

Shanaz Shakir Salam
Student: Bachelor of Engineering (Honours) in Structural Engineering

Pūhanga Koiora Rongoā
Biomedical Engineering

Biomedical Engineers combine engineering, biology, and medicine to understand our complex bodies, develop technology to diagnose and treat diseases, and grow New Zealand's MedTech industry.

Biomedical Engineering is a rapidly diversifying field. As the role of technology in healthcare becomes more prominent, biomedical engineers find themselves at the forefront of real-world, life-changing progress.

Career possibilities

- Healthcare product development engineer
- Biomedical technologies engineering consultant
- Biomedical software engineer
- IP patent attorney
- Orthopaedic engineer
- Biomedical clinical imaging engineer

"With Biomedical Engineering, you will almost certainly be contributing to making people's lives better and advancing scientific understanding. That was was very appealing to me.

"I wanted a career where I could use my skills for the public good. Since going into Biomedical Engineering, I've loved the community that we have, both students and lecturers, all with very similar values and goals.

"This year, I was the Education Lead for the Biomedical Engineering and Engineering Science Students Association (BESA). The BESA community is a testament to the type of people within these specialisations – tight-knit, community-minded students wanting to make the world a better place. I would absolutely recommend getting involved in whichever way feels right, to keep yourself grounded and connected to your cohort.

"There are so many appealing options open to me – research, teaching, working at a biomedical startup. I'm in a very privileged position where I have so many options for my career, where I'll feel fulfilled and have the chance to make a real difference."

Awhi Marshall
Ngāti Pikiao
Student: Bachelor of Engineering (Honours) in Biomedical Engineering

Pūtaiao Pūhanga
Engineering Science

Engineering Scientists are flexible problem solvers who help make decisions that improve the world around us. They use their intellect and skills in mathematics, computation, and machine learning to design solutions and optimise systems.

How should a city's infrastructure networks be planned to allow for future growth? How can a sail be designed to work in low wind conditions? How much energy can be extracted from a geothermal field? These are the kind of questions engineering scientists are tasked with solving.

Career possibilities

- Engineering consultant
- Data scientist
- Energy engineer
- Business consultant
- Computational engineer
- Quantitative trader
- Electricity market operator
- Operations management consultant

"When I was exploring study options, Engineering wasn't on my radar. Although I'd always enjoyed solving problems. The more I researched my options, the more I was drawn to the wide range of opportunities Engineering had to offer.

"A massive highlight for me was the field trip that Part II Engineering Science and Biomedical Engineering students take. It was an amazing opportunity to get to know the other students in the cohort, have fun together, and explore applications of the specialisations.

"I love taking part in events run by the faculty's clubs. The Biomedical Engineering and Engineering Science Student Association (BESA) and the Women in Engineering Network (WEN) run amazing events, offering support and a chance to meet new people.

"The BE(Hons) is a great degree with many different avenues available to go down. Engineering isn't just about maths and physics – it's also about creativity and teamwork. My advice is to be courageous and talk to new people – studying becomes so much easier with friends to share the journey with!"

Fidella Wijaya
Student: Bachelor of Engineering (Honours) in Engineering Science

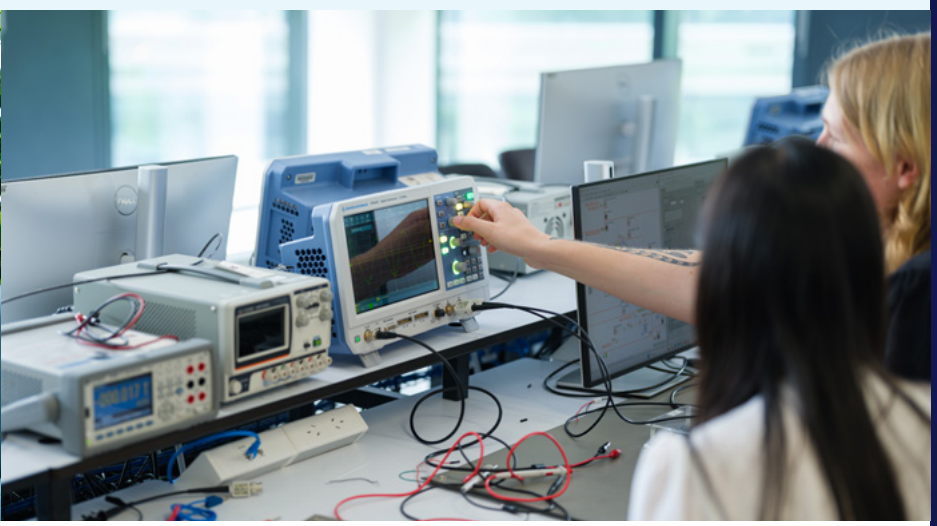
Pūnaha Rorohiko
Computer Systems Engineering

Computer Systems Engineering is in demand in almost every industry worldwide. It constitutes the core of controllers and components in wireless communication systems, home automation systems, appliances, automobiles, factory processes, mechatronics, instrumentation, embedded systems, and nano-systems.

This is a crucial discipline that pushes us to solve practical engineering problems with computer-based approaches, often by embedding a computer system into a complex operation that can sense, problem-solve and act in the real world.

Career possibilities

- Computer chip design and verification engineer
- AI/ML engineer
- Cybersecurity and networking engineer
- Embedded systems engineer
- Software developer
- Robotics engineer
- Field-Programmable Gate Array (FPGA) engineer



> I decided to study engineering because I've always loved the hands-on side of problem-solving. It allows me to combine creativity, logic, and people skills all at once.

"I chose to specialise in Computer Systems Engineering because I really enjoy coding. One of my favourite experiences was when, in a group of three, we programmed a Flappy Bird game. It was a really fun and rewarding challenge that combined coding, problem-solving, and teamwork.

"I want to continue working in outreach to show that STEM is an exciting and achievable career path, especially for young girls who might not see themselves represented in these fields. My goal is to be a role model for the youth in my Pasifika community.

"If you're interested in Engineering, don't be afraid to give it a go! It's about learning how to think creatively and work with others to solve meaningful problems. You don't have to know everything before you start; curiosity, persistence, and teamwork will take you a long way."

Wesley Key
Student: Bachelor of Engineering (Honours) in Computer Systems Engineering

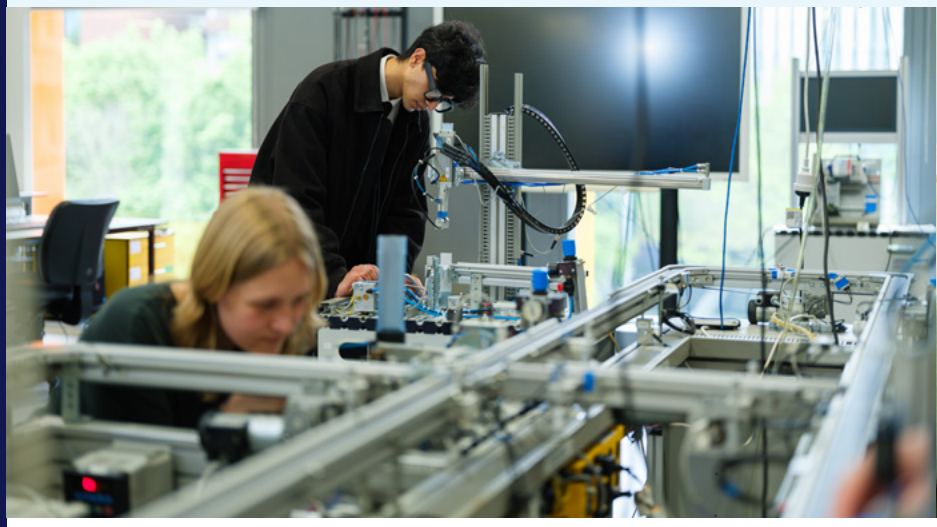
Pūhanga Hiko me te Tāhiko
Electrical and Electronic Engineering

Modern society is highly dependent on reliable power, communications and electronic systems. Electrical and electronic engineers design the equipment and systems that provide these essential services.

The discipline encompasses a range of exciting and diverse fields, from heavy electrical power generation to sophisticated medical electronics, computer modelling, electromagnetics, information technology and the global telecommunications network. Electrical and electronic engineers help develop new technologies and greener solutions to address both current and future challenges.

Career possibilities

- Avionics engineer
- Healthcare technology engineer
- Renewable energy systems engineer
- Digital and wireless communications engineer
- Software and algorithm developer
- Automation and control systems engineer
- Industrial and consumer electronics engineer
- Commissioning and consulting engineer



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Throughout high school, I enjoyed maths and physics but didn’t think of studying Engineering at the time because of my initial misconceptions. I took electronics as a subject and loved the puzzle-solving involved; I discovered that Engineering is so much more than what I first thought.

“Solving electrical and electronic problems feels like solving a satisfying puzzle. I knew that I had an interest in electronics, and in the end, it was the specialisation for me.

“I also attended Enginuity Day in high school, where we visited the university and learnt about the different specialisations, while also speaking with current students to ask about Engineering. It was a memorable moment when I had the opportunity to return to that event as a current student myself.

“The number one piece of advice I would give is to show up to as many things as you can. Attend the lectures in person and meet your classmates. Meeting others can help you build a network that you can learn from, and it often leads to new opportunities.”

Anna Haine
Student: Bachelor of Engineering (Honours) in Electrical and Electronic Engineering

Pūhanga Pūmanawa
Software Engineering

Software Engineering is behind many of the things we now take for granted – internet banking, online shopping and mobile payments. It is the apps on your smartphone, the games on your computer and the cloud storage you depend on to back up your devices.

This area of engineering is being propelled by widespread demand for faultless software support. The creative possibilities in this field can stretch as far as your imagination.

Career possibilities

- AI / Machine learning engineer
- Full-stack developer
- Data engineer
- Cybersecurity analyst
- Software developer

“I wasn’t sure what to study, but Engineering was a good way to learn new things. It gave me time to explore different things and figure out what I enjoyed. I found I really enjoyed Software Engineering.

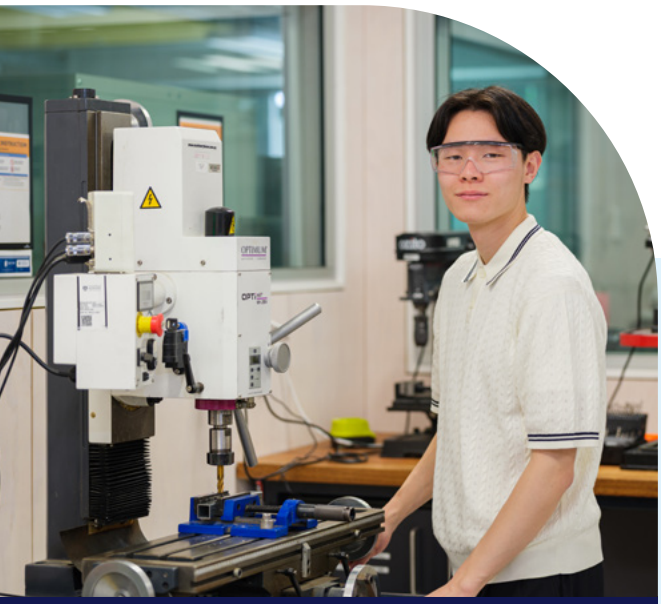
“In high school, I attended Open Day and the Engineering programme really stood out to me, especially the first year, which lets you try all the specialisations before choosing one. That flexibility made me feel confident in my decision.

“The projects I’ve done throughout my degree have been a big highlight. You learn a lot through trial and error, and it’s rewarding when the effort pays off.

“A piece of advice would be that you don’t have to have it all figured out when you start. Engineering gives you time to explore and find what you enjoy. Just keep an open mind, ask questions, and don’t stress too much.”

Leo Van Der Vegte
Student: Bachelor of Engineering (Honours) in Software Engineering

auckland.ac.nz/mech



Pūhanga Pūrere
Mechanical Engineering

Mechanical engineers design and produce devices like robots, wind turbines and rockets. Their work ranges from the small to the big: from nanotechnologies to the large-scale industrial machinery in paper mills and car assembly plants.

Engineers in this discipline also deal with thermodynamics and fluid dynamics, and they understand how to use energy efficiently in processes. Amongst other projects, they use these skills to design heating systems for hospitals and cooling solutions for refrigeration plants, and to make sure aircraft and yachts move efficiently.

Career possibilities

- Product development engineer
- Energy and sustainability engineer
- Mechanical design engineer
- Medical device engineer
- Manufacturing engineer
- Automotive engineer
- Acoustic engineer
- Reliability engineer

“

What excited me about Engineering was the chance to turn creative ideas into real, useful solutions. It’s a field where you get to mix imagination with problem solving, and that’s exactly what I was looking for.

“I was drawn to the University of Auckland’s diverse and welcoming culture. The teaching staff are supportive and experienced, and the facilities give us access to modern labs and tools that help us apply what we learn in real-world projects.

“I chose to study Mechanical Engineering because it provides a broad and rigorous foundation for solving practical problems across many industries. What stood out to me was the variety of topics it covers, which give me the tools to contribute to projects that improve how people live and work.

“One of the highlights of my studies was competing in the Formula SAE competition in Melbourne, Australia, as part of the University’s FSAE:47 race team. It was an incredible experience to compete against other universities and present our car design to industry professionals and judges.”

Matthew Loh
Student: Bachelor of Engineering (Honours) in Mechanical Engineering

Pūhanga Pūrere Tāhiko
Mechatronics Engineering

Mechatronics engineers use specialist knowledge in mechanics, electronics and computer systems to design and develop automated systems. These can include technologies like anti-lock brakes, engine control units, disk drives, service and surgical robots, cameras and medical devices.

These systems are all largely mechanical in nature, but could not function without their electronic and computer control system components. As ‘jacks of all trades’, mechatronics engineers have a versatility that is highly valued in the workforce.

Career possibilities

- Product development engineer
- Automation engineer
- Robotics engineer
- Embedded software engineer
- Control systems engineer
- Solutions architect
- Instrumentation engineer
- Systems engineer

> I was drawn to the diversity that comes with Mechatronics Engineering, and the range of opportunities it offers. It opens doors to so many emerging fields and industries, both in New Zealand and globally.

“Some of the biggest highlights during my studies have been being part of the Dean’s Leadership Programme, the Mechanical and Mechatronics Student Association (MECHA), and the University’s Formula SAE team. These experiences have allowed me to apply what I’ve learned, develop leadership and teamwork skills, and connect with students who share the same passion for engineering.

“I aspire to work in the aerospace or automotive industries. I’m also interested in entrepreneurship and hope to start my own company one day, combining engineering with innovation to create real-world solutions.

“My advice is to stay open-minded, as the world is changing so quickly, and be ready to explore new paths and challenges. We’re living in such an exciting time for engineering, with so much innovation happening – who knows what the next big thing will be!”

Jonty Clark
Ngapuhi
Student: Bachelor of Engineering (Honours) in Mechatronics Engineering

Whakamahere Tāone
Urban Planning

Quick facts – BUrbPlan(Hons)

Full-time: 4 years
Points per degree: 480
Taught at: City Campus
Application closing date: 8 December 2026
Classes start: 1 March 2027

Urban planners play a critical role in shaping our cities, determining how we work, live, and connect. They deal with the complex issues of urban growth, climate change, sustainability, infrastructure, transport, land use and social justice. The Bachelor of Urban Planning (Honours) is the only programme of its type in the country, designed to provide you with the critical knowledge and skills required for urban planning practice.

Why study with us

- Real-world learning experiences through studio-based teaching projects
- Courses combining creativity, critical thinking, design and analysis
- Thorough preparation for professional life through the development of leadership and project management skills
- A professional degree recognised for membership of the New Zealand Planning Institute (NZPI)
- Overseas opportunities for study, internships and other experiential learning

Programme highlights

In your first year, you will explore the historical development of urban planning, its theoretical underpinning, and the ways these are applied to urban planning practice. You will gain an introduction to professionalism, ethics and contemporary issues facing practitioners as you learn about the factors that influence the shape and structure of our urban spaces.

You will also study successful urban planning policy; understand how environmental, cultural, social and economic factors impact urban planning practice; and develop drawing and visual literacy skills to convey ideas in urban planning.

Over the next three years, your courses will cover sustainable and resilient urban development, housing and affordability issues, the integration of infrastructure with land use, transportation planning, Māori urban planning, and visual and spatial literacy, as well as urban design, urban economics, urban environmental issues, and urban planning law.

auckland.ac.nz/burbplan-hons

Sample BUrbPlan(Hons) degree structure

	Semester One				Semester Two		
Year One	BLTENV 101 People, Place and Design Studio	BLTENV 102 Environmental and Social Justice	BLTENV 103 Media for Spatial Practices	WTRENG 100 Waipapa Taumata Rau*	URBPLAN 101 Introduction to Urban Planning	URBPLAN 124 Ecosystem, Sustainability and Environment	URBPLAN 125 Urban Planning Studio 1
Year Two	URBPLAN 221 People, Housing and Communities	URBPLAN 222 Urban Economics	URBPLAN 225 Urban Planning Studio 2		URBPLAN 205 Urban Infrastructure and Transportation Planning	URBPLAN 223 Planning Law and Applications	URBPLAN 226 Urban Planning Studio 3
Year Three	URBPLAN 307 Negotiation, Mediation and Project Management	URBPLAN 321 Urban Policy Analysis, Development and Research Skills	URBPLAN 325 Urban Planning Studio 4		GEN ED	URBPLAN 323 Māori Planning	URBPLAN 326 Urban Planning Studio 5
Year Four	URBPLAN 711 Urban Planning Theory	URBPLAN 735 Resource Consent and Implementation, Evaluation	URBPLAN 716 Contemporary Wicked Problem Studio		URBPLAN 714 Urban Planning Methods and Plan Making Studio	URBPLAN 734 Smart City Planning	URBPLAN 757 Research Project

Core Course | Major | Gen Ed | Capstone Course

** Waipapa Taumata Rau: Engineering and Design for the Built Environment in Aotearoa New Zealand*

Watch Yasmin Kidd talk about her journey into Urban Planning.

Career possibilities

- Planning consultant
- Urban planner
- Regional planner
- Environmental planner
- Transport planner
- Policy planner

Studying Urban Planning allows me to contribute to shaping cities that are sustainable, inclusive, and focused on improving everyday experiences for all people.

“I’ve always been fascinated by the way the built environment shapes our lives. As I grew older, I recognised that not all neighbourhoods offer the same access, safety, or sense of belonging. I wanted to be part of the solution.

“The most memorable moments of my studies have been the site visits. One standout project involved working on a community regeneration strategy after major flooding in Onehunga. It reminded me that planning is not just about buildings and infrastructure. It’s about resilience, equity, and supporting people through change.

“Participating in the Dean’s Leadership Programme has been one of the most impactful experiences for me. It gave me the chance to connect with inspiring peers and engage with influential industry leaders who are shaping the future of engineering, design, and planning in Aotearoa. These opportunities have strengthened my confidence and expanded my understanding of the sector.”

Aliza Aiyaz
Student: Bachelor of Urban Planning (Honours)

Life on campus

University is both a challenging and exciting experience. At the Faculty of Engineering and Design, we're dedicated to providing strong academic support, as well as a variety of events year-round. Through our wide array of student clubs and associations, we're proud to nurture networks that foster diversity amongst our students. Our goal is a supportive and inclusive environment for all.

In-house support

Throughout your studies at the Faculty of Engineering and Design, the Student Support and Engagement team will support you academically, personally, and professionally.

They'll be there from Orientation through to employment, providing academic assistance and links to key support services.

These include health and counselling, Career Development and Employability Services, and academic help – such as the Part I Assistance Centre for first-year Engineering students.

Tuākana Tutorial Programme

The Tuākana Programme is an initiative designed to support Māori and Pacific students in their first year of study. Academic support and targeted tutorials are provided through the Tuākana Tutorial Programme.

Through the Tuākana Mentoring Programme, tuākana mentors – senior Māori and Pacific students who have been trained in mentoring – also meet with their teina regularly to discuss any problems or issues they may have.
auckland.ac.nz/engineering/tuakana

Student Hubs

The Student Hubs are your physical gateway to the University, providing support to help you navigate potential study options, groups, clubs, services, and more.

Our specialised staff are available to answer any questions you may have about your study options and the application process.

As a student, The Student Hubs will be your access point for general information, learning support, and programme advice as you progress through your studies and prepare for your exciting next step.
auckland.ac.nz/student-hubs

> "Designing, building, and racing formula-style cars as part of the University's Formula SAE team has helped strengthen my technical skill set."

Matthew Loh
Student: Bachelor of Engineering (Honours) in Mechanical Engineering

Watch our ASMR (Autonomous Sensory Meridian Response) video
Immerse yourself in a cinematic escape into the sights, sounds and sensations of life at the Faculty of Engineering and Design.

Accommodation

The University of Auckland is the largest provider of student accommodation in the country, offering our students the opportunity to live in the heart of the University throughout their studies. Our offerings range from catered Halls of Residence to self-catered flats and apartments.
auckland.ac.nz/accommodation

Clubs and associations

We ensure that you have the spaces and opportunities to make new friends and enjoy the vibrant culture of student life. We have a range of networks and associations available to support you during your studies.

There are also lots of clubs for various areas of interest, including the Engineering Revue, the University of Auckland Formula SAE Team (FSAE:47), and Engineering for Sustainable Development.
auckland.ac.nz/engineering/clubs

Women in Engineering Network (WEN)

WEN aims to empower women studying Engineering within our faculty and build connections between them. They coordinate social activities, professional development opportunities, and forums for academic support.

South Pacific Indigenous Engineering Students Network (SPIES)

This student-led network is dedicated to supporting Māori and Pacific Engineering students. They help to increase the Māori and Pacific presence within the engineering industry, and build students' character by hosting events and workshops in a friendly and supportive environment.

Rainbow Engineering Network

The Rainbow Engineering Network provides support, advocacy, and opportunities to network within the industry, and connect with fellow LGBTQITakatāpui+ students. They provide information about services, news and events, and a voice for our LGBTQITakatāpui+ students and staff.

Students of Urban Planning and Architecture (SUPA)

SUPA provides a hub for young planners and architects to thrive socially and academically through a range of events and support. Students also gain a crucial link to a variety of school and industry events, offering the chance for greater involvement in their field.

Design Students Association (DSA)

DSA brings together people who love design and creativity, to support each other, share resources and collaborate on projects to improve our creative craft outside the classroom in a fun, relaxed environment.

Thrive with us

Our dedicated support services complement our culture of academic excellence. These services help create an environment where our students feel welcome and inspired.

Practical experience

You'll gain relevant experience in the workplace alongside industry professionals. Prepare for your career before you've even graduated with the hands-on experience gained throughout your chosen degree.

Hands-on learning environments

At our City Campus Campus, our buildings feature numerous tailor-made spaces, including over 50 specialist research laboratories across 11 floors, designed to foster multi-disciplinary teaching and learning.

We also have a range of dedicated, digitally equipped design studios, workshops and labs. These provide the ideal environment for hands-on learning with our state-of-the-art equipment to bring your ideas to life.

Innovation and entrepreneurship

We are committed to building a culture of innovation and entrepreneurship, and we're ranked highly amongst the world's most international universities.* Outside of study, our students have found success in initiatives at Velocity, the University's entrepreneurship development programme.

Women in Engineering

We have one of the highest participation rates of women in tertiary-level Engineering across New Zealand and Australia. We strive to inspire and empower women to achieve their aspirations in Engineering.

Scholarships

We offer a vast number of scholarships. Take a look at our full range of undergraduate scholarships online. auckland.ac.nz/scholarships

International recognition

Our 10 Engineering specialisations are accredited by Engineering New Zealand, a regulatory professional body and signatory to the Washington Accord, recognised worldwide.
Te Pare School of Architecture and Planning is renowned for shaping New Zealand's future leaders in architecture and the built environment.**

> "There are so many amazing opportunities to take part in at university, whether it's clubs, workshops or projects, make the most of them!"

Sachini Weerasinghe
Student: Bachelor of Design and Science conjoint

** Ranked 44th in Times Higher Education: Most international universities in the world 2025*
*** Ranked in top 100 in QS World University Rankings by Subject 2025: Architecture & Built Environment*

Take a look into your future campus experience.
Get a glimpse of what your life could look like as a student in our faculty.

Career support and development

Make the most of our career-focused courses, workshops, internships, events, and strong industry connections. These opportunities are designed to help you build practical skills, explore different pathways, and gain real-world experience. Whether you're still refining your goals or already have a clear direction, you can prepare for your future while studying something you're genuinely passionate about.

Strong career and employment outcomes

The University of Auckland is the leading university in the country for reputation, making our graduates highly sought-after by industry employers. The University is ranked no. 1 in New Zealand for graduate employability.* Opportunity is around every corner, with highly interdisciplinary programmes that allow you to choose the career that's right for you.

Showcase your work

Final Year Project Display Day

Through their Final Year Project, Engineering students are assessed on their ability to utilise both theory and practice, and are encouraged to tackle problems the same way engineers do in their professional career. Final Year Project Display Day is the practical demo and exhibition component. Industry professionals are invited to review and judge the projects, with prizes being awarded to outstanding projects of each department.

ReDesign Graduate Showcase

The ReDesign Graduate Showcase features the work of our graduating students. It is a key opportunity for the public to view our students' investigations into various social, environmental and political issues. Our Design Programme at Waipapa Taumata Rau, University of Auckland, challenges traditionally siloed design disciplines, exploring the power of design thinking across various industries.

Modos+ End of Year Exhibition

The Modos+ End of Year Exhibition is Te Pare School of Architecture and Planning's largest and most prominent event. It is a key opportunity for the public to view our students' investigations into a wide range of social, political and design issues within the built environment. Witness the future of the built environment firsthand. This exhibition features work by students in the fields of Architecture, Urban Design, and Urban Planning.
auckland.ac.nz/engineering/events

** Ranked no. 1 in New Zealand and 90th in the world in Times Higher Education: Global Employability University Ranking 2026*

Our events

University is both a challenging and exciting experience. At the Faculty of Engineering and Design, we're dedicated to providing strong academic support, as well as a variety of events year-round. Through our wide array of student clubs and associations, we're proud to nurture networks that foster diversity amongst our students. Our goal is a supportive and inclusive environment for all.

Fast Forward lecture series

Fast Forward is Te Pare School of Architecture and Planning's free annual lecture series. We aim to foster debate, discussion and development within the disciplines of architecture, urban design and urban planning. A great opportunity to hear from innovative leaders in their field, Fast Forward is a well-known and respected event in the community.

Engineering and Design Info Evening

Our Engineering and Design Info Evening series invites Year 12 and 13 students to explore life in our faculty and see what it's like to study with us. You'll learn about our programmes, career pathways, and student experiences; receive guidance on applying to study; and have the chance to talk with staff and students to help plan your next steps.

Engineering: Her Student Experience

Engineering: Her Student Experience evenings are held annually for women high school students and their whānau to learn about each of our 10 specialisations from our women Engineering students. They'll share insights on skills that you'll acquire through your degree, career pathways, and what it's like to be a student in our faculty.

Enginuity Day

Each year, we open our doors to women high school students for an opportunity to explore the exciting possibilities of an engineering career. Through a range of hands-on activities, students discover the creativity and problem-solving processes engineers use in real life. Professional engineers, lecturers, and current students also discuss engineering careers and student life at the University of Auckland.

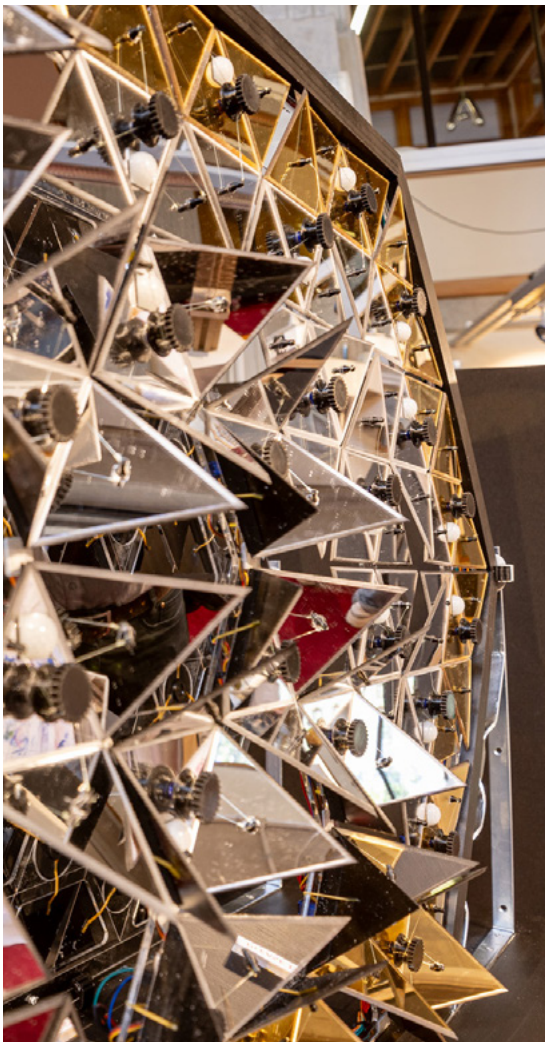
Mānawa Mai Info Evening

Join us online as we discuss all things Engineering, Architecture, Urban Planning and Design. We break down the big questions: school subjects, grades, entry requirements and course information. Learn what it's like to be a student at the Faculty of Engineering and Design and discover more about our programmes from current students and faculty members.
Tuesday, 9 June 2026

Mānawa Mai Open Day

Come along to the University's biggest event of the year! Meet our students and academics, explore our facilities, participate in activities, and learn first-hand about our programmes. Experience our campus and discover the worlds of Architecture, Engineering, Design, and Urban Planning. Whānau and supporters are also welcome to attend to find out more about life at the University of Auckland.
Saturday, 29 August 2026

Explore
our most up-to-date event information, including new events.



Ready to apply?

So you've made your decision on what you want to study, and now it's time to apply. What do you need to do? Follow the steps below to apply for and enrol in the programme you've chosen.

1

Apply

Apply online at **auckland.ac.nz/apply**
Sign up for an account if you don't already have one.
Remember, you can apply for more than one programme.

2

Supply supporting documents

You'll receive an email with a list of supporting documents that you'll need to provide (and any other requirements to complete) before your application can be assessed.

3

Assessment of your application

Your application will then be assessed, and you can check your application status online any time.

Admission decisions are made within four weeks of our receiving the required documents. Delays may occur for future semester intakes and during peak admission periods (September to January and May to July).

4

Accept offer of place in programme (and decline any unwanted offers)

5

Enrol

Once you've accepted an offer of a place in a programme, you can enrol in your courses on Student Services Online.
auckland.ac.nz/sso

After signing in, you can view your programme requirements.
For more information on how to enrol, visit us online.
auckland.ac.nz/enrolment

6

Paying your fees

You can find all the details about paying your fees online.
auckland.ac.nz/fees

Entry requirements

To gain entry into the undergraduate programmes offered by the Faculty of Engineering and Design, you must meet admission, programme and undergraduate English language requirements.

University Entrance standard

To apply for admission based on secondary school qualifications, you need to meet the University Entrance standard established by Universities New Zealand.
auckland.ac.nz/entry-requirements

Programme requirements

As well as achieving University Entrance, you must also meet entry requirements for the BAS, BDes, BE(Hons), or BUrbPlan(Hons) programmes.

Bachelor of Architectural Studies (BAS) application portfolio

To apply for the BAS, you must:

1. Complete the Application for Admission
2. Submit a portfolio via the portfolio portal system, SlideRoom
3. Submit a one-page written statement via SlideRoom

Go online for more information on how to prepare your BAS application portfolio.
auckland.ac.nz/entry-requirements

Calculating your rank score

National Certificate of Educational Achievement (NCEA) Level 3

Your rank score is based on your best 80 credits at Level 3 over a maximum of five approved subjects.These credits are then weighted according to the level of achievement in each set of credits: Excellence (4 points), Merit (3 points) or Achieved (2 points).

A maximum of 24 credits are counted for each approved subject. The maximum rank score is 320. If you achieve fewer than 80 credits, the rank score will be based on your total Level 3 credits gained over a maximum of five approved subjects and weighted by the level of achievement.

Credits obtained in required subjects do not have to be among the best 80 credits used to calculate the rank score. NCEA Level 3 credits achieved before Year 13 can count towards the 80 best credits used for ranking. Those who completed Year 13 Calculus and Physics but did not meet the rank score may still be considered.

University of Cambridge International Examinations (CIE)

Your rank score is based on the UCAS Tariff score for up to six subject units at AS level (one subject unit) or A level (two subject units). A maximum of two subject units can be included from any one syllabus group in the table of available syllabus groups, which are broadly equivalent to those in the list of approved subjects for NCEA.

If you have completed more than six subject units, the best six scores will be used. Thinking Skills and the General Paper will be excluded from the rank score calculation. The maximum rank score is 420. The following points are awarded for each syllabus group.

International Bacclaureate (IB)

Level	A*	A	B	C	D	E
A	140	120	100	80	60	40
AS	-	60	50	40	30	20

Your rank score is the same as your IB score. For example, if you achieve 27 points for IB, your rank score will be 27 points. The maximum rank score is 45.

Rank scores for conjoint programmes

The rank score for guaranteed admission into a conjoint programme is higher than that for a single bachelors programme. You can find the rank score and programme requirements for each of our conjoint programmes online.
auckland.ac.nz/conjoints-by-faculty

Prior tertiary study

To transfer from another tertiary institution you must meet admissions, programme and English language requirements.
auckland.ac.nz/priortertiarystudy

Guaranteed admission rank scores

Programme	NCEA (Level 3)	CIE	IB
Bachelor of Architectural Studies (BAS)	230	280	31
Bachelor of Design (BDes)	180	190	27
Bachelor of Engineering (Honours) (BE(Hons))	250 with 17 external Level 3 credits in Calculus and 16 external Level 3 credits in Physics.	300 with Mathematics and Physics at A levels*	32 with Mathematics and Physics at HL level*
Bachelor of Urban Planning (BUrbPlan(Hons))	180	190	27

**The following may be accepted based on grade achieved: NCEA Level 3 min. external credits; 11 in Mathematics with Calculus and 10 in Physics, AS Mathematics and Physics for CIE students, and SL Physics and SL Mathematics: Analysis and Approaches for IB.*

Academic English Language Requirement (AELR)

The AELR aims to ensure you have a sufficient level of competence in academic English to support your study at University. It will not affect whether you are offered a place on a programme, and may be met through your entry qualification or satisfactory completion of an approved course in your first year of study.
auckland.ac.nz/priortertiarystudy

Alternative entry pathways

If you do not have the appropriate secondary school qualification, subjects and/or rank score, there are several alternative pathways for gaining admission.
auckland.ac.nz/fed-entry-pathways

Undergraduate Targeted Admission Schemes (UTAS)*

The Faculty of Engineering and Design is committed to equity and offers admission schemes for eligible Māori and Pacific students, students with disabilities, students from refugee backgrounds, and students from constrained economic backgrounds, who have met the University Entrance Standard but have not met some of the other entry requirements for the programme of their choice. Places are limited.
auckland.ac.nz/fed-entry-pathways

**Applicants of the BE(Hons) must have studied Physics and Mathematics (including Calculus).*
auckland.ac.nz/utas

Māori and Pacific Targeted Entry Scheme (MAPTES)

All eligible Māori and Pacific students may apply under MAPTES. Places will be allocated according to academic performance. We recommend that you apply for MAPTES even if you don't think you will have the grades to get in. Entry via MAPTES gives you access to Tuākana, our academic and mentoring support programme.
auckland.ac.nz/foed-maptes

Key dates

Semester One 2027 1 March–28 June
Semester Two 2027 19 July–15 November
Application closing date for admission in 2027 8 December 2026

Useful web addresses

The University of Auckland homepage
auckland.ac.nz

The University of Auckland Calendar
auckland.ac.nz/calendar

To download a faculty prospectus
auckland.ac.nz/prospectus

AskAuckland
askauckland.ac.nz

Academic dates
auckland.ac.nz/dates

Information for prospective students
auckland.ac.nz/undergraduate
auckland.ac.nz/postgraduate

Information for parents of students
auckland.ac.nz/parents

Information for international students
auckland.ac.nz/international

Entry requirements
auckland.ac.nz/admission

Fees, scholarships, loans and allowances
auckland.ac.nz/fees

auckland.ac.nz/scholarships

auckland.ac.nz/student-loans-and-allowances

Support services
auckland.ac.nz/studentsupport

Undergraduate and postgraduate study options
auckland.ac.nz/study-options

Conjoint degrees
auckland.ac.nz/conjoints

How to apply
auckland.ac.nz/apply

Connect with us now

Check out our full list of social networking sites and channels.
auckland.ac.nz/connect

facebook.com/uoaengineering

Engineering and Design at the University of Auckland

@uoaengineering

youtube.com/uoaengineering

Sign up and be first to hear about scholarship opportunities, events, new programmes, and everything else you need to know about studying with us.
auckland.ac.nz/registration

Publication date: February 2026

For personal assistance, please visit us at your local Student Hub, where students and whānau are welcome to talk with our expert advisers.

Enquiries: **auckland.ac.nz/askus**
Or phone: **0800 61 62 63**
International: **+64 9 373 7513**

City Campus
General Library, Building 109
5 Alfred Street, Auckland

Grafton Campus
Philson Library, Building 503
Level 1, 85 Park Rd, Grafton
(Entry via the Atrium)

South Auckland Campus
Te Papa Ako o Tai Tonga
6 Osterley Way, Manukau

Whangārei Campus
Te Papa Ako o Tai Tokerau
L Block
13 Alexander Street, Whangārei

auckland.ac.nz