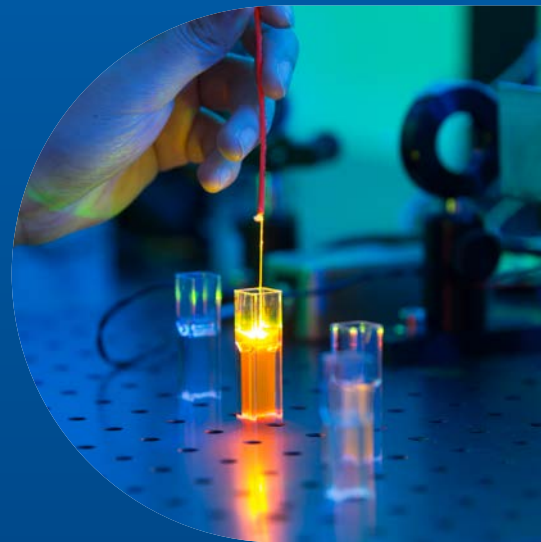


Mātai Ahupūngao Undergraduate Physics



Want to build the future? Start with the foundation. Physics is the science that explains the fundamental rules governing everything from subatomic particles to the entire universe. It lies at the heart of all modern science, engineering, and technology, equipping students with versatile skills for careers in advanced technology development, healthcare, software, aerospace, and many more.

What is physics?

Physics is the reason apples fall and your phone works. It's the science devoted to explaining how the natural world operates and applying that knowledge to drive technological progress. It provides the foundations for modern and emerging subjects that shape our societies, from quantum mechanics and astronomy to medical imaging and lasers. The skills developed through studying physics empower you not only to understand the world at its deepest level, but also to adapt, innovate, and succeed across a wide range of careers in a rapidly changing world.

What you will learn

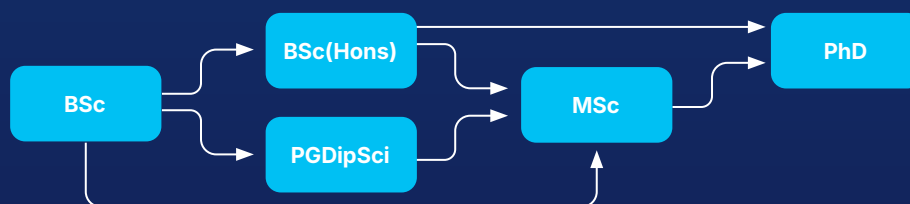
The skills you learn from studying physics provide you with a powerful toolkit for innovation. You'll develop an understanding of the fundamental laws governing nature, learn mathematical and analytical problem-solving skills, and become familiar with modern techniques in data analysis, laboratory experimentation, and computation. Combining hands-on laboratory skills with high-level mathematical and computational modelling, you'll develop the elite problem-solving skills in high demand in today's technology, research, and science sectors.

Choosing a subject

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

Complementary majors include:

- › Mathematics
- › Computer Science
- › Earth Sciences
- › Environmental Science
- › Chemistry



Career opportunities

A door to a range of opportunities

A Physics degree provides students with the skills they need to succeed in a range of fields requiring advanced problem-solving, and our graduates are found in a host of interesting jobs in New Zealand and around the world.

It's important to understand that the applications of physics are wide, so there is no 'typical physicist' job. Our graduates have a wide range of career paths available to them. From research and development to software engineering, diverse opportunities await. You might find yourself in research, business, finance, IT, teaching, or the environmental and engineering sectors. With a Physics degree you can plot a professional pathway that will take you places you've never been before.

Our graduates are employed in a wide and varied range of careers and industries, for example:

- › Flight Dynamics Engineer, Rocket Lab
- › Research & Development, Fisher & Paykel Healthcare
- › Geophysicist, Earth Sciences New Zealand
- › Policy Analyst, The New Zealand Treasury
- › Atmospheric Scientist, MetService
- › Technologist, Fonterra
- › Research Scientist, Q-CTRL
- › Data Analyst, Financial Markets Authority

Other roles include:

- › Software Engineer
- › Medical Physicist
- › Secondary School Physics/Science Teacher
- › University Researcher/Lecturer/Professor

What you can study

BSc, BSc(Hons) in Physics

- › Quantum Physics
- › Lasers and optics
- › Astronomy, Astrophysics, and Cosmology
- › Nano and Materials Physics
- › Climate, atmospheric and ocean physics
- › Acoustics and seismology
- › Nuclear Physics



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

auckland.ac.nz/physics

Applications close on 8 December.



"The fundamental laws that govern our universe have interested me since I was young. I enjoy seeing how we can take a small number of essential principles and use them to understand a multitude of diverse phenomena."

Caleb Todd

BSc in Physics and Mathematics, BSc (Hons) in Physics

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



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

Have any questions?
Contact the Student Hub

auckland.ac.nz/student-hubs