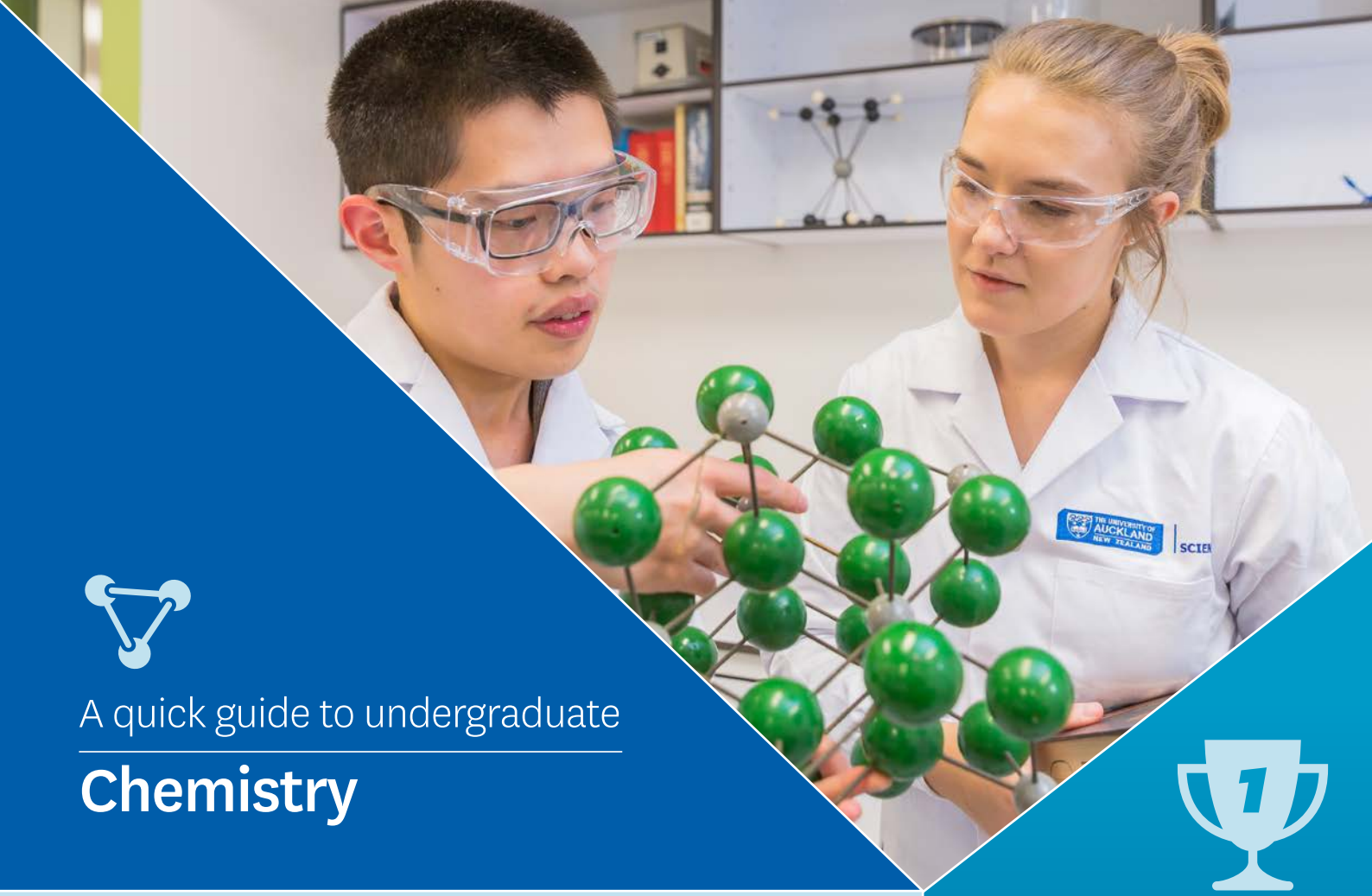

A quick guide to undergraduate

Chemistry

Chemistry is the science of atoms and molecules. If you want to understand the structure and properties of the world around you, then Chemistry is the science for you. It's a central science, and underpins fields as diverse as biology, geology, environmental science, medicine and engineering.

The University of Auckland is ranked first in New Zealand for chemistry*, and studying Chemistry with us means you'll have access to award-winning laboratory facilities, and academics who are leaders in their field.

Chemistry deals with molecular structure and synthesis, chemical reactions and theoretical models that explain molecular behaviour. The study of Chemistry leads to new substances, better processing reactions and greater understanding of materials, biological processing and the environment.

If you'd like to study Chemistry with us, it would be beneficial to have studied chemistry at high school. Mathematics and physics also provide helpful numerical knowledge, but they're not essential.

science.auckland.ac.nz/excellence

Can't choose which subject to study?

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

Complementary majors include:

- Anthropological Science
- Biological Sciences
- Earth Sciences
- Environmental Science
- Geography
- Mathematics

Explore and discover everything you need to know about studying Chemistry:

science.auckland.ac.nz/ug-chemistry

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2 *degrees at once*

Our subject is ranked #1 in New Zealand

QS World University Rankings by Subject 2020

#1 Chemistry

What you'll study in your Chemistry degree

BSc

Topics you can study include:

- Chemistry of the living and material worlds
- Spectroscopy
- Properties of matter
- Nano-materials
- Organic chemistry

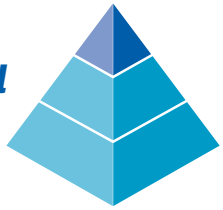
BAdvSci(Hons)

Topics you can study include:

- Molecular synthesis
- Modelling chemical processes
- Green chemistry
- Biomolecular chemistry
- Materials chemistry

INCLUDES A

student-led capstone course



Do research with an academic mentor

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www.science.auckland.ac.nz/ug-chemistry

Careers in Chemistry

A career with wide-ranging opportunities

Chemistry is an extraordinarily multi-disciplinary science. The interaction with other sciences has an enormous influence on our modern lifestyle and standard of living.

Studying Chemistry leads to new substances, better processing reactions and greater understanding of materials, biological processing and the environment.

Future opportunities for Chemistry graduates are many and varied. You may offer future employers an ability to think logically, analyse complex systems and communicate clearly.

You may end up working in the fields of food, paper, brewing, paint and plastics, ceramics, metals and agricultural products. You could also work in a Crown Research Institute, medical and diagnostic or Government laboratories, and police forensic units.

Our Chemistry graduates have been employed in the following jobs:

- Food lab scientist, Ministry of Agriculture, Forestry and Food (Food Division)
- Teacher, Aorere College
- Technician, Westland Milk Products
- Laboratory assistant, AsureQuality
- Analyst, Agility CIS
- Technician, Watercare Services Ltd
- Project engineer, Woodside Energy
- Teacher, Macleans College

Harry Lewin

Bachelor of Science majoring in Chemistry

"Before I began high school I had memorised the entire periodic table. I actually began University in the Medicinal Chemistry major, but from the excellent lectures in CHEM 110, I decided to switch majors into pure Chemistry so that I could focus more on my original likes and interests.

"I have a particular love for organic chemistry. I like how everything is interchangeable on molecules if you mix them with the right reagents. My subsequent studies in the field of green chemistry, and how that can be applied to organics, has just made me more interested.

"I like learning about new concepts in science, both old approaches and newer, greener approaches. There is an endless array of knowledge, and learning just tiny bits of it in undergraduate classes is rather addictive and makes me want to continue as far as I can go.

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A quick guide to undergraduate

Food Science and Nutrition

We all need to eat, and there is a wealth of science behind the food we eat, how it's made, and how it affects our health. This science is part of a fascinating subject that is highly relevant to the lives of everyone: Food Science and Nutrition.

When studying this subject at the University of Auckland, you choose between two distinct pathways: Food Science or Nutrition.

If you choose the Food Science pathway, you'll study topics like food manufacturing, processing and production, food components and their properties, food safety, and product development.

If you choose the Nutrition pathway, you'll study topics like human nutrition, the health and wellbeing of individuals and populations, and the environmental, social, economic and cultural influences on eating behaviours.

Food Science and Nutrition involves many scientific disciplines. You'll find it useful to have a broad science background, including high school chemistry and mathematics for the Food Science pathway. High school biology, physics and statistics are helpful but are not essential. Note that high school food technology is not required because it is not really related to Food Science at University.

Explore and discover everything you need to know about studying Food Science and Nutrition:

science.auckland.ac.nz/ug-food-nutrition

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What you'll study in your Food Science and Nutrition degree

If you follow the **Food Science pathway**, your study will include:

- A consolidation of chemistry, biology and mathematics subjects in first year
- Taking foods apart to look at the individual food components, their functionalities and nutritional quality
- Food microbiology, food processing, food preservation, emerging technologies and their benefits
- Product development

If you follow the **Nutrition pathway**, you'll study topics such as:

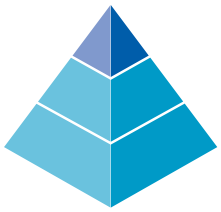
- Human anatomy and physiology
- Biochemistry and metabolism
- Population health
- The many factors influencing eating behaviours

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

science.auckland.ac.nz/ug-food-nutrition

INCLUDES A

student-led capstone course



Zoe Xie

Bachelor of Science in Food Science and Nutrition (Food Science pathway).

"I am really curious about food composition and structure. I've always wondered why most of the healthy food is not that delicious, while the junk food tastes so good. I hope to one day produce one kind of food that is healthy and has perfect taste as well.

"The University of Auckland is one of the world's highly ranked universities and the Faculty of Science has plenty of knowledgeable professional staff. The study environment is really good, and my fellow Food Science students are all passionate about what we do.

"The study of Food Science is amazing and interesting, I've learned so much in my studies. We have a lot of labs where we can actually explore the samples – plus, we have a lot of fun! I can't wait to get to the next level in my studies.

"In the future I hope to find employment where I can work with food every day, possibly where I can explore and produce food.

"The University of Auckland provides brilliant opportunities for students. For example, I am going to study at the University of California as an exchange student in one of my semesters. I am so excited and looking forward to exploring life in the USA!"

Careers in Food Science and Nutrition

Food Science

The food and beverage industry and food research institutes need well-trained Food Science graduates who can help to ensure safe, innovative and high-quality food production. Industry is constantly striving to meet consumer demands for foods that are not only safe but healthy, sustainable, natural, convenient and have good sensory properties to maintain wellbeing. Your day-to-day work could include research, food and ingredient manufacturing, food safety, product development and food analysis.

Nutrition

With an increasing awareness of the role of the foods we eat and their effect on health, our nutrition graduates are equipped to work in health promotion in the community, health policy in government, nutrition consulting as a registered nutritionist, nutrition information services, food industry, and the health and fitness industry. You could also choose to undertake specialised post graduate training in order to register as a dietitian.

Our Food Science and Nutrition graduates can be employed in many aspects of the Food, Nutrition, and Health industries. Some examples are:

- Danone, and Danone Nutricia Specialised Nutrition, Nestle, Bronson & Jacob and other large food multinationals;
- Heinz-Watties, Synlait, Westland Milk, Fonterra, Ceres and many classic NZ food companies;
- Retail health consultant, Auckland Clinical Studies;
- Ministry of Primary Industries, The Ministry of Health and other regulatory and policy government roles;
- Registered Nutritionist at companies such as Radix Nutrition, Zespri;
- Public health positions at The Heart Foundation, Healthy Auckland Together, Health Promotion Agency, and Healthy Families NZ;
- Plant and Food Research and other research organisations;
- Many laboratory and testing companies.

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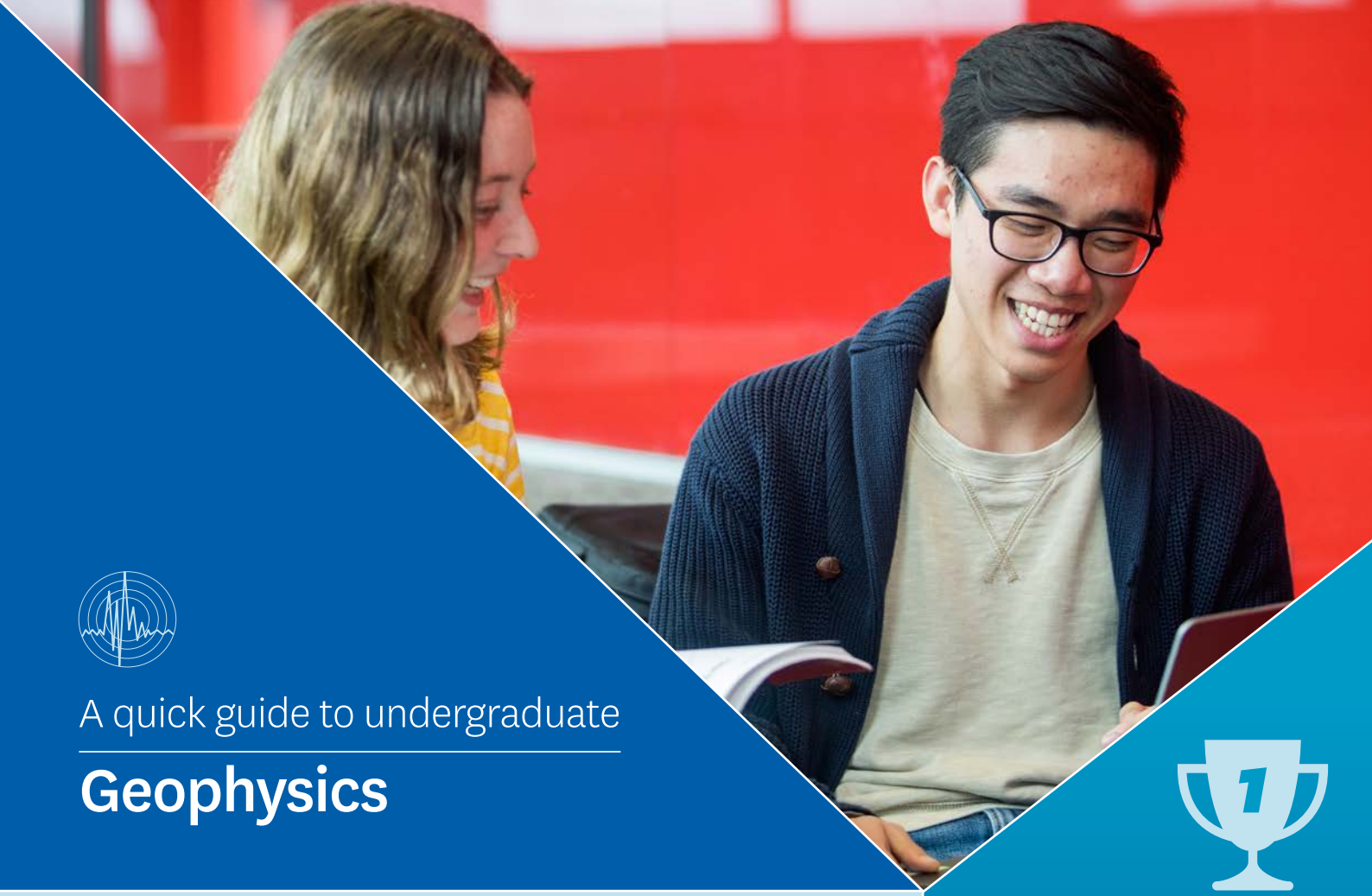

A quick guide to undergraduate

Geophysics

Geophysics is the study of the Earth and environment using physics and mathematics. It spans from the deep interior of the Earth to its surface, oceans and atmosphere. Geophysicists aim to explain the physical phenomena we observe today to discover their past and model their future behaviour.

As a Geophysics student you'll study the physical processes of the Earth, including the hazards posed by earthquakes and volcanoes, the currents in oceans and atmosphere, weather, and climate. Studying Geophysics at the University of Auckland means you'll learn in an environment that is ranked first in New Zealand for earth and marine sciences, which includes Geophysics*.

If you're interested in studying Geophysics with us, you will need to have taken physics and mathematics at high school. Geography, chemistry and statistics provide helpful background knowledge, but they're not essential.

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Complementary majors include:

- Computer Science
- Earth Sciences
- Environment Science
- Geography
- Mathematics
- Physics

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What you'll study in your Geophysics degree

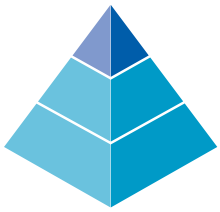
BSc

Topics you can study include:

- Climate
- Structure and dynamics of the Earth
- Natural hazards and resources
- Oceans and atmosphere

INCLUDES A

student-led capstone course



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

science.auckland.ac.nz/ug-geophysics

Kiara Daly

Bachelor of Science, majoring in Geophysics and Physics.

"I enjoy Geophysics because it is a great overlap between an Earth Sciences degree and a Physics degree. It combines the ability to explain 'what is happening' from Earth Sciences, but it takes everything I learn to the next level by using Physics to explain 'how it is happening'.

"Geophysics is a very powerful thing to study as you pick up knowledge that provides you with incredible insight into all facets of the world. I love how relevant the subject matter is, and I find myself being able to identify and explain so much of the phenomena in the world around me.

"This field of study is very unique because there are still fundamental things that we do not understand, so there are great opportunities to make an impact and add to the world's knowledge. There are also so many avenues of geophysics that you can go into depending on what you are passionate about.

"My favourite part of studying at University is being part of the Geophysics team. Everyone supports each other; you become part of a close-knit group with easy access to the lecturers, who encourage you to interact with the postgraduate students.

"I hope this qualification will lead to a research position where I can make a breakthrough that will enhance our understanding of the world we live in and contribute to improving people's quality of life."

Careers in Geophysics

A workforce addressing the future

Important questions about the future of climate, energy, geohazards, and drinking water require a workforce that is well-versed in the different aspects of Geophysics.

As a Geophysics graduate you are trained in a variety of disciplines during your studies. These include mathematical modelling, statistics, physics and computer science, and can lead to a variety of career paths.

Our graduates can be found researching the geophysical processes involved with climate, plate tectonics, earthquakes, volcanoes, the oceans and our atmosphere.

You can also become explorers for natural resources, looking for oil, minerals and groundwater, and help to monitor and manage environmental problems including natural hazards such as earthquakes, climate change and pollution.

Jobs for our Geophysics graduates include:

- Atmospheric scientist
- Energy industry consultant
- Geohazard researcher
- Ground and geothermal water exploration consultant
- Environmental and geotechnical specialist
- Mineral industry advisor
- Oceanographer

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A quick guide to undergraduate

Green Chemical Science

Green Chemical Science involves the use of chemical principles, science and technology to advance society in ways that are sustainable and safe for the environment.

The approaches used in Green Chemical Science often involve interdisciplinary studies in catalysis, synthesis, toxicology, analytical methodology, materials science and biochemistry, in order to tackle global issues and problems that impact on sustainability. As a Green Chemical Science student you'll have an interdisciplinary and highly practical learning experience. You'll study topics including pollution elimination, clean water production, production of materials from renewable feedstocks, mitigation of global warming, and the development of renewable energy technologies.

If you're interested in studying Green Chemical Science with us, it's a good idea to have taken chemistry at high school. High school biology is beneficial, but it's not essential. Mathematics, statistics or physics also provide helpful numerical knowledge.

Explore and discover everything you need to know about studying Green Chemical Science:

science.auckland.ac.nz/ug-green-chem

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One of 24 BSc subjects

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What you'll study in your Green Chemical Science degree

BSc

Topics you can study include:

- Pollution elimination
- Clean water production
- Production of materials from renewable feedstocks
- Mitigation of global warming
- Development of renewable energy technologies

INCLUDES A

student-led capstone course

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

science.auckland.ac.nz/ug-green-chem

Harry Lewin

Bachelor of Science majoring in Chemistry

"Before I began high school I had memorised the entire periodic table. I actually began University in the Medicinal Chemistry major, but from the excellent lectures in CHEM 110, I decided to switch majors into pure Chemistry so that I could focus more on my original likes and interests.

"I have a particular love for organic chemistry. I like how everything is interchangeable on molecules if you mix them with the right reagents. My subsequent studies in the field of green chemistry, and how that can be applied to organics, has just made me more interested.

"I like learning about new concepts in science, both old approaches and newer, greener approaches. There is an endless array of knowledge, and learning just tiny bits of it in undergraduate classes is rather addictive and makes me want to continue as far as I can go.

"Green chemistry is the future. I am photographed with a microwave heating unit, which has been developed as a low energy and non-polluting heating alternative to burning fossil fuels; doing chemical processes more safely, less wastefully and using less energy is the way forward.

"Anyone taking an interest in green chemistry with a way of thinking that is outside the box has many Nobel Prize opportunities in their future!"

Careers in Green Chemical Science

A buoyant future in an interdisciplinary field

Businesses both here and overseas are fast realising that sustainability and reducing waste can lessen a company's environmental impact, increase their profit margins and improve consumer relationships.

What's good for the planet is good for business, and the demand for greener processes means there's an increasing number of jobs available in the sustainability science arena.

Green Chemical Science graduates may find themselves in multi-faceted spaces working alongside people with different skill sets to deliver the best products and processes.

As a graduate of this specialisation you'll be equipped with the necessary skills and knowledge to take advantage of these career opportunities, and to contribute to society in a meaningful and informed way.

Jobs for our Green Chemical Science graduates include:

- Biochemist
- Chemist
- Chemistry technician
- Environmental consultant
- Environmental scientist
- Research chemist
- Scientific adviser

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A quick guide to undergraduate

Medicinal Chemistry

Medicinal Chemistry is the study of the design, biochemical effects, regulatory and ethical aspects of drugs for the treatment of disease. It's one of the most rapidly developing areas within the discipline of chemistry, both globally and locally.

The University of Auckland is ranked first in New Zealand for chemistry*, which includes Medicinal Chemistry.

As a Medicinal Chemistry student you'll gain a strong foundation in biological and chemical techniques that are relevant to the pharmaceutical world. You'll study the synthesis, reactivity and analysis of organic compounds, and you'll gain valuable insight into the pharmacological, regulatory and ethical aspects of these bioactive compounds.

If you're interested in studying Medicinal Chemistry with us, it's a good idea to have taken chemistry at high school. High school biology is also beneficial because of the biological/medicinal focus of this specialisation, but it's not essential. Mathematics, statistics or physics also provide helpful numerical knowledge.

www.science.auckland.ac.nz/excellence

Explore and discover everything you need to know about studying Medicinal Chemistry:

science.auckland.ac.nz/ug-med-chem

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What you'll study in your Medicinal Chemistry degree

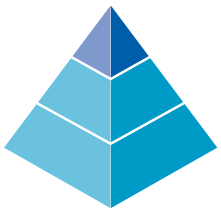
BSc

Topics you can study include:

- Biochemistry
- Pharmacology of the brain and body
- Spectroscopy
- Properties and analysis of matter
- Nano-materials and bio-macromolecules

INCLUDES A

student-led capstone course



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Careers in Medicinal Chemistry

A foundation of multi-disciplinary skills

Medicinal Chemistry is one of the most rapidly developing areas within the discipline of chemistry, both globally and locally.

Studying Medicinal Chemistry is designed to equip you with the multi-disciplinary knowledge and skills relevant to a rapidly expanding pharmaceutical industry.

You will have a unique combination of skills: you will be trained in the synthesis, reactivity and analysis of organic compounds and gain valuable insight into the pharmacological, regulatory and ethical aspects of these bioactive compounds.

As a graduate you tend to find employment in a wide range of institutions such as hospitals, biomedical and pharmaceutical companies, private research institutions, local and national government authorities and agencies and Crown Research Institutes.

Our Medicinal Chemistry graduates have been employed in the following jobs:

- Quality assurance technician, Unitech Industries Inc
- Technology specialist, ARI Limited
- Logistics coordinator, Napier Port

Other positions and roles include:

- Developing guidelines and reviewing new drug applications
- Drug development, including drug formulation
- Testing potential new bio-active compounds

Casey Park

Bachelor of Science in Medicinal Chemistry.

"I remember the exact moment when I decided to pursue Medicinal Chemistry.

"In year 12, I came to Courses and Careers Day and attended a lecture about Medicinal Chemistry by Distinguished Professor Margaret Brimble. She explained some of her amazing accomplishments, and how they have affected so many people's lives.

"I was deeply inspired by this and was determined to take Medicinal Chemistry. Also, I enjoyed both chemistry and biology at school, and Medicinal Chemistry is a combination of both. So, it was perfect for me!

"Medicinal Chemistry is about designing, synthesising and discovering drugs by using fundamental knowledge from chemistry as well as other fields in science. I have gained an unbelievable amount of knowledge about not only chemistry, but also areas such as physiology and immunology.

"This subject helps you to figure out what you are genuinely passionate about by letting you explore a variety of different courses. It is very challenging, but what you gain from it makes everything worth it.

"I would like to go into research. I have been taking an immunology course, which I am absolutely in love with. I'd like to be involved in designing and synthesising drugs that could cure various immunological diseases! I would love to take part in making innovations in the field of medicine that will enhance quality of life."

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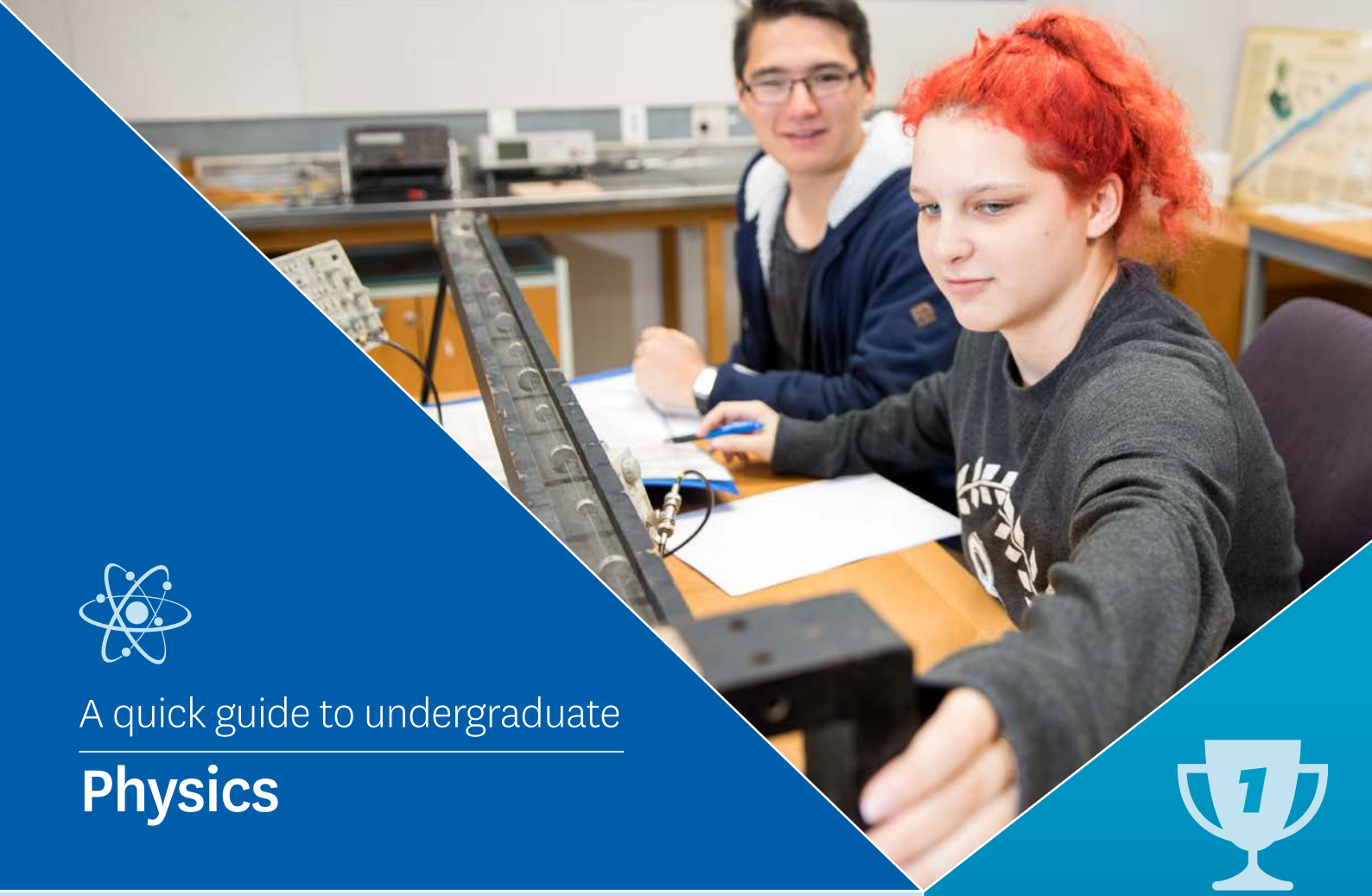

A quick guide to undergraduate

Physics

Understanding physics means to understand the laws of nature, and the nature of matter. Physics is arguably the most fundamental of all sciences – study Physics if you want a sharp insight into the world around you.

All of modern science and technology is underpinned by physics. As a Physics student you'll gain an understanding of matter as well as training in experimental methods and the mathematical analysis of physical processes, such as energy and force.

The University of Auckland is ranked first in New Zealand for physics and astronomy*, and studying with us means you'll have access to state-of-the-art teaching facilities and lecturers who are leaders in their fields.

If you're interested in studying Physics with us it's a good idea to have taken mathematics at high school, but it's not essential. High school mathematics modules in differentiation and/or integration provide useful background knowledge, which you'll find useful for developing your mathematical analysis and reasoning skills. If you've also taken high school physics with some mechanics and waves modules, you'll find this background knowledge useful too.

*science.auckland.ac.nz/excellence

Can't choose which subject to study?

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Complementary majors include:

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

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2 degrees at once

Our subject is ranked #1 in New Zealand

QS World University Rankings by Subject 2020

#1 Physics and Astronomy

What you'll study in your Physics degree

BSc

You can choose to keep your Physics major general, or you can choose one of two pathways:

- **Medical Physics and Imaging Technology:** If you follow this pathway you'll gain training in the use of optical and laser technologies, with applications in sensing, medicine and modelling.
- **Photonics:** If you follow this pathway you'll study the science and technology of light, and gain training in photonic and electronic engineering, advanced physics and mathematical electronics.

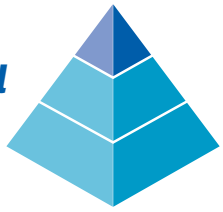
BAdvSci(Hons)

Topics you can study include:

- Acoustics
- Astronomy
- Medical imaging and devices
- Meteorology
- Nuclear physics
- Quantum physics

INCLUDES A

student-led capstone course



Do research with an academic mentor

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Careers in Physics

A door to a range of opportunities

A Physics degree provides students with the skills they need to succeed and our graduates are found in a host of interesting jobs in New Zealand and around the world.

From patent consulting to weather forecasting, many diverse avenues open up to graduates with training in Physics. Industry, in particular, takes many of our graduates. You could end up in research, business, finance, IT, teaching, or the environmental or engineering sector.

With a Physics degree you can plot a professional pathway that will take you places you've never been before.

Our Physics graduates have been employed in the following jobs:

- Tester, Planit Software Testing - New Zealand
- Programmer, Catalyst IT
- Technical writer, Integrated Control Technology (ICT)
- Policy analyst, New Zealand Treasury
- Teacher, Western Springs College

Other positions and roles include:

- Materials development
- Patent consulting
- Weather forecasting

Taiyo Serge

Bachelor of Science, majoring in Physics and Mathematics.

"I love how Physics gives us the ability to describe and predict what will happen in the world around us. By utilising the tools taught in Mathematics I can develop greater understanding of the physical concepts taught in Physics.

"I really enjoy the camaraderie between students in my courses. Being surrounded by people who are interested in similar things as me creates an engaging learning environment.

"I also love the passion with which the lecturers present their material. It's very different to high school physics because there is a distinct split between theoretical lectures and self-guided study, which is applying this new knowledge.

"My favourite part of studying at University is getting to know people around me. My classmates are great people to hang out with! Living at a first-year hall last year also allowed me to create strong social bonds with many people, which I will carry through into the future.

"I hope that this qualification will lead me into a research career in astrophysics. I intend to continue my studies at the University of Auckland with an honours year in Physics to bring myself closer to this goal."

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Kuhua ki tō mātou hapori, ā, Kimihia tōu Pūtaiao.

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Applications close on 8 December.