



VICTORIA UNIVERSITY OF
WELLINGTON
TE HERENGA WAKA

SCIENCE

PŪTAIAO

BACHELOR OF SCIENCE

BACHELOR OF BIOMEDICAL SCIENCE





Te Herenga Waka—Victoria University of Wellington has been awarded five stars plus overall in the QS Stars university ratings system. In addition, the University received five stars in all eight categories on which it was evaluated.

CONTENTS

Science	2
Our degrees	2
Bachelor of Science	4
Careers	5
Further study opportunities	5
Entry requirements	6
Degree structure	6
Double-major degrees	6
Conjoint degrees	6
Sample degree programmes	7
Majors	10
Bachelor of Biomedical Science	14
Careers	15
Further study opportunities	15
Entry requirements	15
Degree structure	16
Sample degree programme	17
Majors	18
Find out more	20
Subjects	<i>Inside back cover</i>

IMPORTANT NOTICE: Te Herenga Waka—Victoria University of Wellington uses all reasonable skill and care to ensure the information contained in this document is accurate at the time of being made available. However, matters covered by this document are subject to change due to a continuous process of review and to unanticipated circumstances, including those caused by COVID-19. The University therefore reserves the right to make any changes without notice. So far as the law permits, the University accepts no responsibility for any loss suffered by any person due to reliance (either whole or in part) on the information contained in this document, whether direct or indirect, and whether foreseeable or not.

SCIENCE

PŪTAIAO

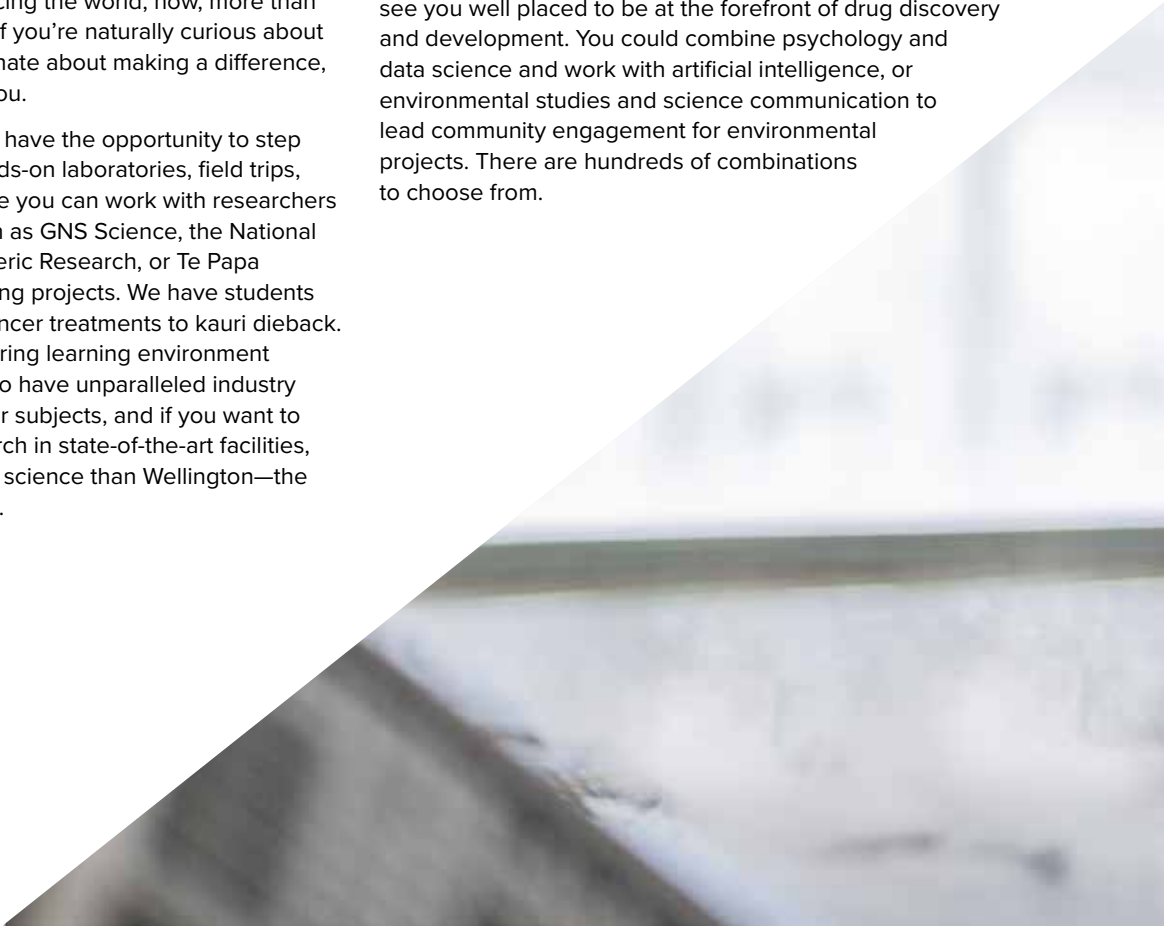
Science is the pursuit of knowledge about ourselves and the world around us. From medicine to technology, it is hard to find an area of life that has not been impacted by science in some way. As a Science student at Te Herenga Waka—Victoria University of Wellington, you'll absorb knowledge, observe phenomena, experiment with ideas, and be part of making new discoveries. With challenges such as the COVID-19 pandemic, the climate emergency, New Zealand's mental health crisis, and a rise in antibiotic resistance facing the world, now, more than ever, we need more scientists. If you're naturally curious about the world we live in and passionate about making a difference, science could be the path for you.

At Wellington's university, you'll have the opportunity to step outside the classroom with hands-on laboratories, field trips, and summer scholarships where you can work with researchers and external organisations such as GNS Science, the National Institute of Water and Atmospheric Research, or Te Papa Tongarewa on all kinds of exciting projects. We have students researching everything from cancer treatments to kauri dieback. So, if you're looking for an inspiring learning environment with excellent teaching staff who have unparalleled industry knowledge and passion for their subjects, and if you want to learn about cutting-edge research in state-of-the-art facilities, there's no better place to study science than Wellington—the science capital of New Zealand.

OUR DEGREES

We offer two three-year undergraduate Science degrees: the Bachelor of Science (BSc) and the Bachelor of Biomedical Science (BBmedSc).

A major is the main subject you'll focus on in your degree. You can major in one or two subjects to suit your passions and future ambitions. Combining biology and chemistry will see you well placed to be at the forefront of drug discovery and development. You could combine psychology and data science and work with artificial intelligence, or environmental studies and science communication to lead community engagement for environmental projects. There are hundreds of combinations to choose from.





BACHELOR OF SCIENCE


TOHU PAETAHI PŪTAIAO

Te Herenga Waka—Victoria University of Wellington's Bachelor of Science (BSc) degree consistently produces students with scientific skills and experience to flourish in today's evolving job market. Our BSc is a combination of theory-based learning with world-renowned academics and hands-on experience in state-of-the-art facilities, providing you with the ability to collect, analyse, and understand data, think critically and creatively, and communicate your findings effectively.

Go beyond the lecture theatre and apply your natural curiosity to the many laboratories, field trips, and summer scholar opportunities offered within this degree.

Choose from more than 25 majors, in everything from Psychology to Marine Biology to Actuarial Science. The BSc offers flexibility in learning, combining interests and career aspirations to create a degree that is individual to you.

Join us at the heart of science discovery in New Zealand and help change the world for the better.

 www.wgtn.ac.nz/bsc





“Since graduating, I have been working at the Ministry for the Environment, firstly across climate change and now waste and resource efficiency. These roles have seen me coordinating the modelling and preparation of New Zealand’s greenhouse gas emissions projections and helping to implement the expansion of the waste levy. My qualification was an ideal fit—equipping me with many of the skills and attributes I needed to succeed.”

Ben Nistor

Graduate, Master of Science in Physical Geography
Policy analyst, Ministry for the Environment

CAREERS

Our BSc graduates have secured careers all over the world, as geologists, psychologists, and data analysts to name a few. The degree has earned a high reputation among employers both in New Zealand and around the globe for developing knowledgeable, skilled, and creative scientists who are determined to make a difference in their field of expertise.

After completing this degree, you might find yourself developing new software for multinational businesses, working with government officials on reducing the impact of climate change, studying marine life in the Antarctic Ocean, or solving an issue that doesn’t exist yet.

Potential jobs include:

- Actuary
- Astronomer
- Cartographer
- Chemist
- Clinical trial manager
- Computer software engineer
- Data scientist
- Environmental engineer
- Geologist
- Government analyst
- Hydrologist
- Marine biologist
- Physicist
- Psychologist
- Research scientist
- Science policy writer
- Therapist

FURTHER STUDY OPPORTUNITIES

Te Herenga Waka—Victoria University of Wellington offers a variety of postgraduate study options that will help boost your career opportunities after completing your BSc.

Bachelor of Science with Honours

Extend your knowledge in a specialised field of science with a Bachelor of Science with Honours (BSc(Hons)). You’ll complete an intensive one-year programme and gain the advanced theoretical knowledge and skills you need to pursue a scientific career.

Master’s degree

A Master’s degree will develop your technical, laboratory, and academic writing skills to further prepare you for a career in science. There are several options available, including a one-year (180 point) coursework degree and a two-year (240 point) coursework and thesis degree.

Doctor of Philosophy

A Doctor of Philosophy (PhD) is an internationally recognised degree for those who wish to pursue a career as a research scientist or as an academic and involves a major piece of specialised original research. Supervision for PhD research is available in almost all subject areas we offer.

i www.wgtn.ac.nz/postgraduate-science

ENTRY REQUIREMENTS

An interest in science or mathematics will go a long way to helping you during your degree. Some science courses have specific NCEA Level 3 entry requirements. If you feel you haven't studied enough science at secondary school or have not met the NCEA requirements for a subject, you can attend preparatory courses in Trimester 3 the summer before your degree starts.

DEGREE STRUCTURE

Your first year

In your first year, you're likely to take seven or eight courses from a range of subject areas. There are no core courses common to all majors in this year. However, your BSc must include one course in either Econometrics, Mathematics, Physics, or Statistics. Most students do this in their first year.

Your second year

This year, you'll start to get down to the detail of your chosen major and develop your research skills. You're likely to take six to eight courses—three or four courses in your major subject and the remaining courses chosen from your second major, minor subject, and/or electives. To add variety and depth to your degree, you might take some courses outside the sciences.

Your third year

In your third year, you're likely to take three or four courses in your major subject and a further three or four courses that might be your second major, or a mixture of your minor and other electives. You'll graduate with specialised knowledge in your major, ready to enter the workforce or go on to postgraduate study.



“I really enjoy the way Physics and Maths challenge my problem-solving skills, and the University has really helped grow my interest in subjects that I already loved.”

Joseph Poata (Rongowhakaata)

Student, Bachelor of Science in Physics and Geophysics

DOUBLE-MAJOR DEGREES

You can major in one or two subjects to suit your passions and future ambitions. Your first major must be a Science subject, and your second major can be a Science subject or a subject from another undergraduate degree. There are hundreds of combinations to choose from. Combine Data Science and Computer Science and be part of the big data revolution, or become a meteorologist with your knowledge of statistics and environmental science.

CONJOINT DEGREES

You can choose to combine your degree with another in a conjoint degree. This will take you less time than completing two degrees separately. You could combine a BSc in Environmental Studies with an LLB in Law to become an environmental lawyer, or a BSc in Psychology with a BCom in Marketing to work in advertising. Our student advisers can help you make a plan that will work for you.

i www.wgtn.ac.nz/course-planning

SAMPLE DEGREE PROGRAMMES

Example: BSc with a double major—first major Ecology and Biodiversity, second major Statistics

YEAR 1		YEAR 2		YEAR 3	
Trimester 1	Trimester 2	Trimester 1	Trimester 2	Trimester 1	Trimester 2
BIOL 113 Biology of Plants (15 points)	BIOL 111 Cell Biology (15 points)	BIOL 222 Ecology and Environment (20 points)	BIOL 227 Plants and Algae: Function and Diversity (20 points)	BIOL 327 Population and Community Ecology (20 points)	BIOL 329 Evolution (20 points)
BIOL 114 Biology of Animals (15 points)	STAT 193 Statistics in Practice (15 points)	BIOL 228 Animal Diversity (20 points)	BIOL 241 Genetics (20 points)	STAT 391 Mathematical Methods for Applied Statistics (15 points)	STAT 393 Linear Models (15 points)
MATH 141 Calculus 1A (15 points)	MATH 177 Probability and Decision Modelling (15 points)	STAT 292 Applied Statistics 2A (15 points)	BIOL 271 Introductory Marine Ecology (20 points)	STAT 392 Sample Surveys (15 points)	STAT 394 Multivariate Statistics (15 points)
ESCI 111 The Earth System (15 points)	ESCI 132 Antarctica: Unfreezing the Continent (15 points)		STAT 293 Applied Statistics 2B (15 points)	BIOL 325 Global Change Biology (20 points)	
60 points	60 points	55 points	75 points	70 points	50 points
120 points		130 points		120 points	

Total points required: 360

Total points completed: 370

First major	Second major	Elective
-------------	--------------	----------

Major: A major is the main subject you'll focus on in your degree.

Elective: Elective courses are an opportunity for you to take courses in other subjects you're interested in, and they don't necessarily need to be related to your major or minor subjects.

Example: BSc with a major in Physics and minor in Mathematics

YEAR 1		YEAR 2		YEAR 3	
Trimester 1	Trimester 2	Trimester 1	Trimester 2	Trimester 1	Trimester 2
PHYS 114 Physics 1A (15 points)	PHYS 115 Physics 1B (15 points)	PHYS 241 Quantum Mechanics and Kinetic Theory (15 points)	PHYS 242 Electromagnetism I (15 points)	PHYS 305 Thermal Physics (15 points)	PHYS 304 Electromagnetism (15 points)
MATH 151 Algebra (15 points)	MATH 142 Calculus 1B (15 points)	PHYS 243 Classical Mechanics and Relativity (15 points)	PHYS 245 Methods of Experimental Physics (15 points)	PHYS 307 Quantum Physics (15 points)	PHYS 309 Solid State and Nuclear Physics (15 points)
MATH 141 Calculus 1A (15 points)	MATH 161 Discrete Mathematics and Logic (15 points)	Any 200-level MATH course (15 points)	MATH 243 Multivariable Calculus (15 points)	Any 300-level MATH course (15 points)	Any 300-level MATH course (15 points)
COMP 102 Introduction to Computer Program Design (15 points)	COMP 103 Introduction to Data Structures and Algorithms (15 points)	STAT 193 Statistics in Practice (15 points)	Any 200-level MATH course (15 points)	Any 200-level STAT course (15 points)	Any 300-level PHYS course (15 points)
60 points	60 points	60 points	60 points	60 points	60 points
120 points		120 points		120 points	

Total points required: 360

Total points completed: 360

Major	Minor	Elective
-------	-------	----------

Major: A major is the main subject you'll focus on in your degree.

Minor: An optional additional area of focus for a degree.

Elective: Elective courses are an opportunity for you to take courses in other subjects you're interested in, and they don't necessarily need to be related to your major or minor subjects.



MAJORS

Engineering majors

You can also major in Computer Science, Computer Graphics, or Electronic and Computer Systems as part of your Bachelor of Science degree. For more details about these majors, refer to the Engineering and Computer Sciences publication.

Actuarial Science

Get the knowledge and skills you need to become a qualified actuary. Actuarial Science brings economics, mathematics, and statistics together to help companies and organisations forecast and manage risks.

Applied Physics

Applied Physics focuses on how the concepts and techniques of physics can be used in technology. Explore examples such as lasers, semiconductors, nanoscience, and quantum optics.

Biology

Study Biology and get a broad grounding in the biological sciences. Find out where living organisms come from, how they develop, and study the way they work.

Biotechnology

Biotechnology helps us make products that benefit humanity. This could be in the form of new medicines, better crops, or biofuels for a cleaner environment. It is closely aligned with Biomedical Science, which focuses on human health and diseases.

Cell and Molecular Bioscience

Look at cell biology, genetics, and chemical genetics, and study living organisms at the molecular level. Get an introduction to physiology and pharmacology and learn about human organs and organ systems.

Chemistry

Learn about the molecules of life, the principles behind their behaviour, and how they interact with each other. Find out how this knowledge is being used in the development of new medicines and to create new molecules and synthetic materials.



“At the end of my degree, I took part in the summer research scholarship programme. Through the programme, I worked directly with the economic intelligence unit in the Ministry for Primary Industries. Working with the team gave me fantastic on-the-job experience in the professional world. At the end of the project, I was offered, and accepted, a full-time role in the team.”

Oliver Jarvis

Graduate, Bachelor of Science majoring in Biotechnology and Economics
Programme manager, Vaccine Alliance Aotearoa New Zealand

www.wgtn.ac.nz/subjects

Computer Graphics

Learn about the key concepts and tools used in the creation of today's computer graphics and effects. Gain the programming, engineering, and maths skills to create your own rendering tools.

Computer Science

Study the concepts, techniques, and theory behind computer science. Discover artificial intelligence, networking, computer graphics, computer games, and the design of programming languages.

Data Science

Develop technical skills in computing technologies, statistics, and mathematics and work with real data sets to develop a practical understanding of the social dimensions of data.

Development Studies

Study the enormous differences in living standards around the world and what we can do about them. Examine the relationships between people and institutions, from small communities to government agencies and international organisations.

Ecology and Biodiversity

Learn about the huge diversity of plants, animals, and micro-organisms that live on Earth. Ecology—how living things interact with their environment—and Biodiversity—the diversity among and within plant and animal species—go hand in hand to give you a broad understanding of life on Earth.

Electronic and Computer Systems

Learn the maths and physics that lie at the heart of electronics and mechatronics. Find out why electronic components act the way they do, and study programming and computer science.

Environmental Science

Discover how humans connect with and change the natural environment. Gain an understanding of this relationship, drawing on a range of sciences including Biology, Chemistry, Geography, Mathematics, and Physics.

Environmental Studies

Environmental Studies takes you beyond the 'pure' sciences to include social, cultural, and economic perspectives on the environment. You'll learn about the pressures humans place on the earth and what we can do about it.

Geography

Focus on the relationship between humans and their environment. Examine how human cultures shape the world around them, and investigate the differences and inequalities between and within different countries and nations.

Geology

Learn about the effects of shifting tectonic plates, how mountains are made, and the power of volcanic eruptions. Work and undertake research in the lab and out in the field to discover the origins of the solar system and how magma moves.

 www.wgtn.ac.nz/subjects



“The most important aspect of teaching isn't the teacher—it's the students and how they're learning. Excellent teaching means always keeping your students in mind and learning, both from and about them, as you teach. I want to support my students to achieve their best.”

Dr Mairéad de Róiste

Associate Professor in the School of Geography, Environmental and Earth Sciences

Geophysics (Meteorology)

Look up to the sky and study Meteorology—the science of weather. Use maths and physics to understand natural forces and explore Earth’s atmosphere.

Geophysics (Solid Earth)

Investigate the ground beneath our feet. Understand the world’s most exciting physical phenomena as you use maths and physics to explore the structure and properties of our planet.

Marine Biology

Study life in the sea. Learn about the organisms that live in the ocean and how they interact with one another and their environment.

Mathematics

Explore the potential of Mathematics while you confront some of the world’s most difficult unsolved intellectual challenges. Investigate problem-solving techniques you can use in several disciplines, including pure and social sciences.

Physical Geography

Find out about the physical processes that continuously shape Earth, such as the movement of oceans and glaciers, earthquakes, the climate, and animals. Discover the relationships between these different earth-system processes, and the ways that these can affect economic, social, and environmental sustainability.

Physics

Study the fundamental theories developed by pioneering physicists such as Newton, Galileo, Faraday, and Maxwell. Explore the current understanding of interactions of matter, time, and space, delving into quantum mechanics and relativity.

Psychology

Study the science behind our brains and behaviour. Gain insights into why people think, act, and feel the way they do. Examine social behaviour, emotion, personality, and motivation.



“I chose to study Psychology because I wanted to have a positive impact on others’ lives. Studying it alongside my Science in Society courses has really helped me understand the way psychology, and science generally, is communicated, or miscommunicated, to the public. It’s made me recognise how important it is for truthful and accurate information to be portrayed. I’m really looking forward to using my skills to make a positive contribution to society.”

Kamla Waita

Student, Bachelor of Science in Psychology with a minor in Science in Society

 www.wgtn.ac.nz/subjects

Science Communication

Build your knowledge of science and the scientific process, and learn how to communicate scientific information effectively to a range of audiences.

Science in Society (available only as a minor)

Look at the role of science and scientists in our present and in our past, and the different perspectives that shape the way we talk about science. Find out how people and governments use science to make decisions about issues such as climate change and vaccination.

Statistics

Learn to collect, analyse, and interpret data. Statistics is a mathematical tool to help us understand today's information-rich world, and statisticians work in many different industries—from the financial world to marketing campaigns to government policy.

“Before I started studying here, I thought university would be difficult, stressful, and challenging, and that I would spend most of my time in the library. Although it certainly has come with challenges, I've found that I managed to balance study and my social life. I had also expected that the courses I was taking would be mainly theory-based, but many of them have been very practical and relatable to real-world issues.”

Jean Paul Birikumana

Student, Bachelor of Science with Honours in Statistics

i www.wgtn.ac.nz/subjects



BACHELOR OF BIOMEDICAL SCIENCE

TOHU PAETAHI MĀTAI RONGOĀ KOIORA

Antibiotic resistance, global disease, gene-editing technology, and drug design are some of the biggest challenges—and opportunities—facing our world. The Bachelor of Biomedical Science (BBmedSc) is a three-year degree that helps you develop the skills to embark on a range of scientific research careers and to be engaged in the discovery of vital medical developments.

You'll study the relationship between health, humans, and disease, from researching genetics, neuroscience, and reproduction to understanding the cellular and molecular structure of a disease and searching for cures.

Throughout your degree, you'll look at real-life health and medical issues and gain first-hand experience of biomedical and clinical research through the University's close relationship with the Capital and Coast District Health Board, the Ferrier Research Institute, and the Malaghan Institute of Medical Research.

i www.wgtn.ac.nz/bbmedsc



CAREERS

Biomedical graduates have the knowledge base to enter a variety of fields, including human genetics research, genetic counselling or management, human fertility and ageing, clinical biochemistry, immunology, molecular pathology, and the development of new pharmaceuticals.

Potential jobs:

- Biological chemist
- Biomedical scientist
- Biomedical technician
- Cell biologist
- Data analyst
- Geneticist
- Haematologist
- Immunopathologist
- Laboratory technician
- Microbiologist
- Molecular biochemist
- Pathologist—anatomical, clinical, or forensic
- Policy analyst
- Research analyst
- Science communicator
- Teacher
- University lecturer



“I really enjoyed the practical learning that the courses in the Biomedical Science degree offer. The skills I learnt in the laboratory sessions made it easy to transition from a university teaching laboratory to a working medical laboratory. These practical sessions teach everything from basic skills such as how to use a micropipette and a centrifuge, to DNA analysis and bioinformatics.”

Beth Gannon

Graduate, Bachelor of Biomedical Science in Molecular Pathology
Medical laboratory technician at the New Zealand Blood Service

FURTHER STUDY OPPORTUNITIES

Once you’ve completed your BBmedSc, you can choose to expand your knowledge with a postgraduate qualification to develop your skills further. Work on building hypotheses, gathering, evaluating, and interpreting data—then putting it all together and communicating your findings. A BBmedSc degree gives you postgraduate options in:

- Biomedical Science
- Clinical Immunology
- Clinical Research
- Drug Discovery and Development.

The degree is also an excellent starting point for medical school, or you may choose a career in a medical laboratory.

i www.wgtn.ac.nz/mbmedsc

ENTRY REQUIREMENTS

An interest in science and mathematics will go a long way to helping you during your degree, and a background in chemistry is recommended for the BBmedSc. If you feel you haven’t studied enough science at secondary school or have not met the NCEA requirements for a subject, preparatory courses are available in Trimester 3 the summer before your degree begins.

Go to www.wgtn.ac.nz/study for more information.

For the latest information on degrees, course details, and prescriptions, see our website.

i www.wgtn.ac.nz/bbmedsc



DEGREE STRUCTURE

Your first year

You'll study five core 100-level courses that cover the basics of cell biology (how the body is put together), and animal and human physiology (how the body functions). You'll look at the biology of disease and you'll study related areas such as Chemistry, Psychology, and Statistics.

Your second year

You'll gain a deeper understanding of animal, plant, and microbial biology. You'll be studying metabolic processes, how genes control cellular functions, how cells arrange themselves into a complex adult, and how the human body functions.

Your third year

In this year, you'll be advancing your knowledge with a focus on biomedical applications that, depending on your major, will prepare you for postgraduate research or a career in human health and clinical medicine-related fields.

SAMPLE DEGREE PROGRAMME

Example: BBmedSc with a major in Human Genetics

YEAR 1		YEAR 2		YEAR 3	
Trimester 1	Trimester 2	Trimester 1	Trimester 2	Trimester 1	Trimester 2
BIOL 114 Biology of Animals (15 points)	BIOL 111 Cell Biology (15 points)	BIOL 244 Introductory Biochemistry (20 points)	BIOL 241 Genetics (20 points)	BIOL 340 Genes and Genomes (20 points)	BMSC 339 Cellular Regulation (20 points)
CHEM 114 Principles of Chemistry (15 points)	BMSC 117 The Biology of Disease (15 points)	BIOL 252 Cell and Developmental Biology (20 points)	BIOL 243 Physiology and Pharmacology (20 points)	BMSC 343 Advanced Genetics (20 points)	Any 300-level BMSC course (20 points)
STAT 193 Statistics in Practice (15 points)	COMP 132 Programming for the Natural and Social Sciences (15 points)	Elective course (20 points)	Any 200-level major course (20 points)	Any 300-level BMSC course (20 points)	Elective course (20 points)
BMSC 116 Sex and Evolution (15 points)	Elective course (15 points)				
60 points	60 points	60 points	60 points	60 points	60 points
120 points		120 points		120 points	

Total points required: 360
Total points completed: 360

Core	Major	Elective
------	-------	----------

Core: Core courses are the courses you're required to take to complete a Bachelor of Biomedical Science.

Major: A major is the main subject you'll focus on in your degree.

Elective: Elective courses are an opportunity for you to take courses in other subjects you're interested in, and they don't necessarily need to be related to your major or minor subjects.

MAJORS

Human Genetics

If you're interested in syndromes and diseases of genetic origin, ageing, human fertility, and genetic counselling, then a major in Human Genetics is right for you. It covers the study of the human genome, epigenetics, the molecular basis and treatment of disease, evolutionary genomics, molecular biology, and recombinant DNA technology. A qualification in human genetics can lead to career paths in genetic counselling, fertility treatment, or health research.

i www.wgtn.ac.nz/subjects



“The lecturers and lab staff have been very friendly and approachable. Through them, I’ve had the opportunity to volunteer in one of the neuroscience labs, which gave me practical experience in a lab environment.”

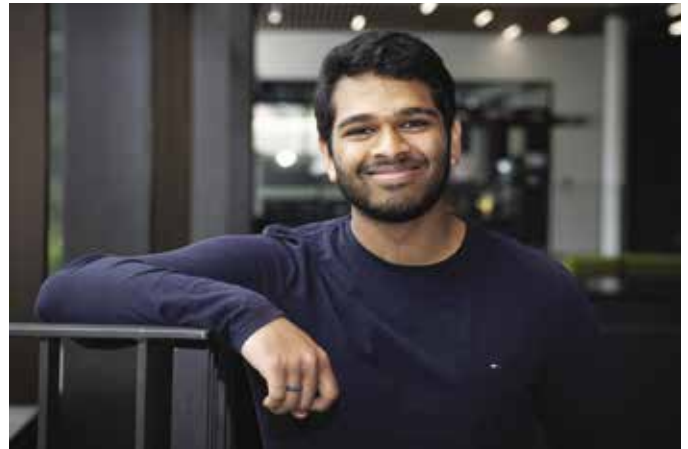
Bria Pengelly

Student, Bachelor of Biomedical Science with Honours

Molecular Pathology

This major is an introduction to the molecular basis of disease. You'll focus on the organs of the body and the changes that occur in cells, tissues, and organs within the body when humans become ill. You'll learn about ways that biomedical research can be used to detect disease, prevent the spread of disease, and reduce and repair damage caused by disease. This major will suit students interested in clinical biochemistry, forensics, immunology, microbiology, neuroscience, and the relationship between health and disease.

i www.wgtn.ac.nz/subjects



“I chose to study Biomedical Science because I wanted to learn about real health issues in our world. I chose Wellington because I’m able to apply that knowledge in modern, state-of-the-art labs.”

Kavinda Dharmawardane

Student, Bachelor of Biomedical Science in Molecular Pathology and Molecular Pharmacology and Medicinal Chemistry

Molecular Pharmacology and Medicinal Chemistry

If you're interested in both chemistry and biology and how substances are delivered through, and dealt with by, the body, then the Molecular Pharmacology and Medicinal Chemistry major is right for you. How we treat disease relies on how we understand disease. Your study will focus on aspects of chemistry in relation to our bodies. You'll learn about modern chemical methods for the synthesis of drugs and how they work within a living system. Molecular Pharmacology and Medicinal Chemistry is an important first step to pursuing a career in drug discovery or pharmaceuticals. You could work in research and development for a large multinational company such as Bayer, or combine your degree with Law to become a patent lawyer.

i www.wgtn.ac.nz/subjects



FIND OUT MORE

WHY WELLINGTON?

The Wellington Faculty of Science is one of New Zealand's top research institutions, and our teaching staff are some of the most respected in the world. Our University is ranked first in New Zealand for intensity of high-quality research (2018 Performance-Based Research Fund); and we're ranked in the world's top 100 for subjects including Earth and Marine Sciences, Geology, and Psychology (2021 QS World University Rankings).

Our career-focused curriculum and relationships with industry and government will prepare you for success in your chosen field and give you the chance to make a difference. We're home to several leading research institutes—you might learn from someone who is developing vaccines at the Malaghan Institute of Medical Research (the country's largest private medical research institute), designing sustainable technology at the MacDiarmid Institute for Advanced Materials and Nanotechnology (New Zealand's top research institute in materials science), or researching climate change at the Antarctic Research Centre (winner of the 2019 Prime Minister's Science Prize, New Zealand's most valuable science award).

KEY DATES

Enrolments open on 10 September 2021. Applications for study in 2022 are due on 20 January 2022. We'd love to see you at one of our information events—check our website for dates.

www.wgtn.ac.nz/information-evenings

CONTACT US

Wellington Faculty of Science

Room CO144, Level 1, Cotton Building, Kelburn Campus

📞 04 463 5101

✉ science-faculty@vuw.ac.nz

🌐 www.wgtn.ac.nz/science

📘 www.facebook.com/vicuniwgtnscience

COURSE PLANNING

For help with course planning, contact Student Recruitment and Orientation.

📞 0800 04 04 04

✉ course-advice@vuw.ac.nz

🌐 www.wgtn.ac.nz/courses

OTHER STUDENT RESOURCES

Disability support

🌐 www.wgtn.ac.nz/disability

Māori student support

🌐 www.wgtn.ac.nz/awhina

Pasifika student success

🌐 www.wgtn.ac.nz/pasifika

Rainbow student support

🌐 www.wgtn.ac.nz/rainbow

Scholarships

🌐 www.wgtn.ac.nz/scholarships

Student services and support

🌐 www.wgtn.ac.nz/student-support



SUBJECTS

BACHELOR OF SCIENCE

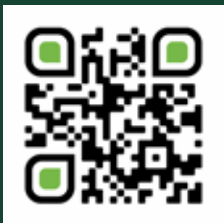
Actuarial Science	Environmental Science
Applied Physics	Environmental Studies
Biology	Geography
Biotechnology	Geology
Cell and Molecular Bioscience	Geophysics (Meteorology)
Chemistry	Geophysics (Solid Earth)
Computer Graphics	Marine Biology
Computer Science	Mathematics
Data Science	Physical Geography
Development Studies	Physics
Ecology and Biodiversity	Psychology
Electronic and Computer Systems	Statistics

You can also major in Computer Science, Computer Graphics, or Electronic and Computer Systems as part of your Bachelor of Science degree. For more details about these majors, see the Engineering and Computer Sciences publication.

BACHELOR OF BIOMEDICAL SCIENCE

Human Genetics
Molecular Pathology
Molecular Pharmacology and Medicinal Chemistry





VICTORIA UNIVERSITY OF
WELLINGTON
TE HERENGA WAKA

INFO IHONUI

0800 04 04 04 | info@vuw.ac.nz | www.wgtn.ac.nz