

Mātai Tatauranga Undergraduate Statistics

Are you interested in looking critically at numerical information without being misled? Do you want to be able to make sense of data, and use it to solve problems? Statistics is the human side of the computer revolution, and you could be part of it.

A navigator in the information age

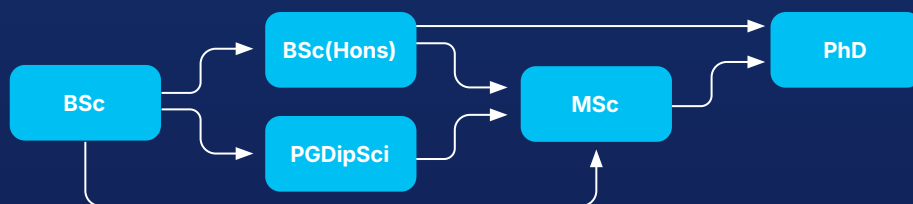
We live in an increasingly data-rich and digital world. Computers allow us to collect and store information in quantities previously impossible. Understanding statistics helps you understand our world, as it is statistics that allows us to extract meaning from seemingly incomprehensible data.

Statistics is also a fast-growing field of its own. Researchers in our department, and our graduates, tackle new questions in ecology, education, medicine, astrophysics, wine growing, and other fields, developing novel statistical methods, mathematical tools, and computational systems.

What you will learn

As a Statistics student you'll study how to ask the right questions, how to collect and analyse data, and how to present information in meaningful ways. You'll be able to choose whether you keep your major general, or whether you study one of two dedicated pathways: Applied Statistics, or Statistics and Probability.

You don't need high school statistics or mathematics to study Statistics with us – we welcome all students! However, high school statistics and/or mathematics provide helpful background knowledge. If you're interested in studying our probability courses you'll find it useful to have studied some differentiation at high school.



Prerequisites

If you are planning to take the Applied Statistics pathway or just a small number of applied statistics courses, then having some basic numeracy skills is all that is required.

If you want to gain some confidence in basic numeracy you can always start by taking STATS 100 or MATHS 102 before going on to further courses. No previous formal study in statistics is required.

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 study a double major with our Bachelor of Science to gain a broader base of skills and knowledge.

Statistics complements all other Bachelor of Science majors, but it matches particularly well with:

- > Computer Science
- > Information and Technology Management
- > Logic and Computation
- > Mathematics
- > Physics
- > Psychology



Career opportunities

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In one week a practicing statistician can help to investigate a case of disputed authorship, design an experiment to evaluate the effects of a new treatment for a disease, analyse a set of data gathered by an ecologist, and help a freight carrier to study work processes to find ways to make the company more profitable.

Statistics applies to almost any field; this is why some training in statistics can help make you more effective and more employable, regardless of the career direction you choose. Whatever field of statistics you specialise in, a Statistics degree will be an important step in opening up new and exciting career opportunities for you.

Our Statistics graduates have been employed in the following jobs:

- › Network planning analyst, Air New Zealand
- › Analyst, Goldman Sachs
- › Data & Analytics Consultant, Servian
- › Machine Learning Researcher, ESR
- › Data Scientist, Harmonic Analytics Ltd
- › Data Analyst/Consultant, Orion Health
- › Data Scientist, Rokt: Ecommerce Technology Solutions
- › Modelling Analyst, The Treasury - New Zealand
- › Population Affairs Officer, United Nations, New York.
- › Data scientist, ESR
- › Digital Engineer, Tonkin + Taylor
- › Research Assistant, Counties Manukau DHB

What you will study

BSc

You can choose to keep your Statistics major general, or you can choose one of these pathways:

- › **Applied Statistics:** Choose this pathway if you're mainly interested in the practice of statistics.
- › **Statistics and Probability:** Choose this pathway if you're interested in both the application of statistics and the theory underlying it.



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

auckland.ac.nz/science/ug-statistics

Applications close on 8 December.



"I've been consistently impressed by the quality of teaching staff and support facilities, particularly within the statistics department. Their dedication to fostering a supportive learning environment has been pivotal in my academic journey, making the experience informative and enjoyable."

Antariksh Nag

Bachelor of Science and Bachelor of Commerce conjoint majoring in Statistics, Economics and Finance.

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. [2025]

Have any questions?
Contact the Student Hub

auckland.ac.nz/student-hubs