

STATISTICS

UNDERGRADUATE HANDBOOK

2017



THE UNIVERSITY OF
AUCKLAND
Te Whare Wānanga o Tāmaki Makaurau
NEW ZEALAND

SCIENCE

Welcome to the Department of Statistics

Understanding statistics is a way to help you understand our world.



The staff in our department apply their knowledge and skills in statistics to many fields – biology, finance, official statistics, engineering, health, marine science, astrophysics and others. They will show you how to extract information from data in our digital world.

Studying Statistics will add value to your academic journey. Nearly two out of every three students at the University of Auckland include at least one Statistics course in their degree.

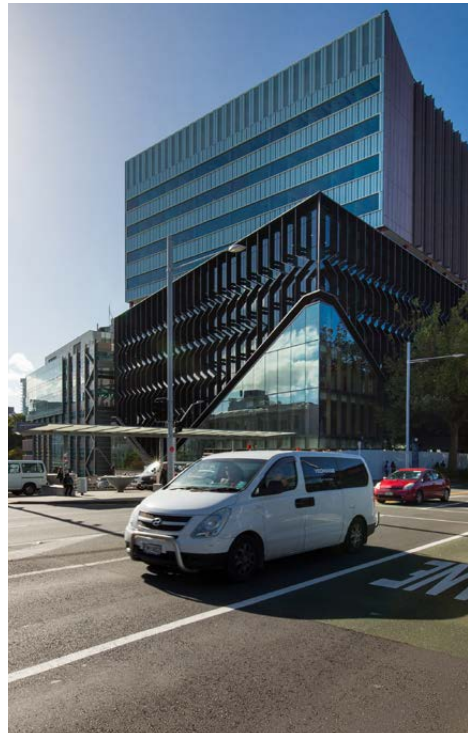
There are excellent career prospects for graduates who combine a major in Statistics with other subjects in Business, Science, Engineering, Medicine or Arts. Whether you are thinking of majoring or minorng in Statistics or just complementing your degree with some Statistics courses, we will be delighted to welcome you to our department in 2017.

ILZE ZIEDINS
Head of Department

The University of Auckland has the
LARGEST*
statistics department
in Australia and New Zealand

A light blue map of Australia and New Zealand is positioned behind the text. The word 'LARGEST' is in a large, bold, blue font, with an asterisk to its upper right. The words 'statistics department' are in a smaller, blue font, and 'in Australia and New Zealand' is in an even smaller, blue font. A small blue outline of New Zealand is to the right of the text.

Birthplace of 

The text 'Birthplace of' is in a blue font. To its right is a stylized blue logo consisting of a circle with a horizontal bar through it, resembling a letter 'R'.

Bachelor of Science in Statistics

Statisticians have a vital contribution to make in dealing with the problems facing the world. Statistics benefits all of us because we are able to make predictions for the future based on data we have previously gathered. Whatever field of statistics you specialise in, a degree from our department will be an important step in your career.

3

The average number of years it takes to complete a Bachelor of Science degree



You can choose either a single or double major



Preparation for school leavers

High school students are recommended to take Mathematics in the form of Statistics and/or Calculus.

For course planning and enrolment, go to www.science.auckland.ac.nz/student-centre



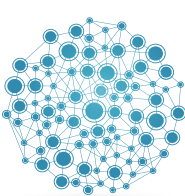
Complementary majors

A double major is strongly recommended as it will enhance your career options by providing a broader base of skills and knowledge. Statistics is suitable as a complementary major with all the other science majors, and as a conjoint with other faculties. In particular:

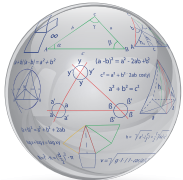
STATISTICS +

- Biological Sciences
- Computer Science
- Environmental Science
- Information Systems
- Logic and Computation
- Marine Science
- Mathematics
- Physics
- Psychology

www.science.auckland.ac.nz/doublemajors



Statistics



Mathematics

Planning your major

BSc

Year 1



With appropriate prerequisites can also be filled by Stage II or III.

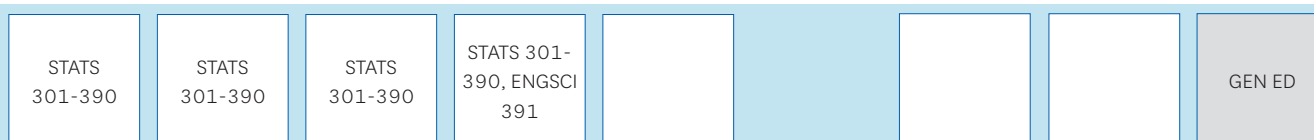
Year 2



STATS 220 and 255 are also recommended.

Any Stage

Year 3



Stage III Science

Stage II or III Science

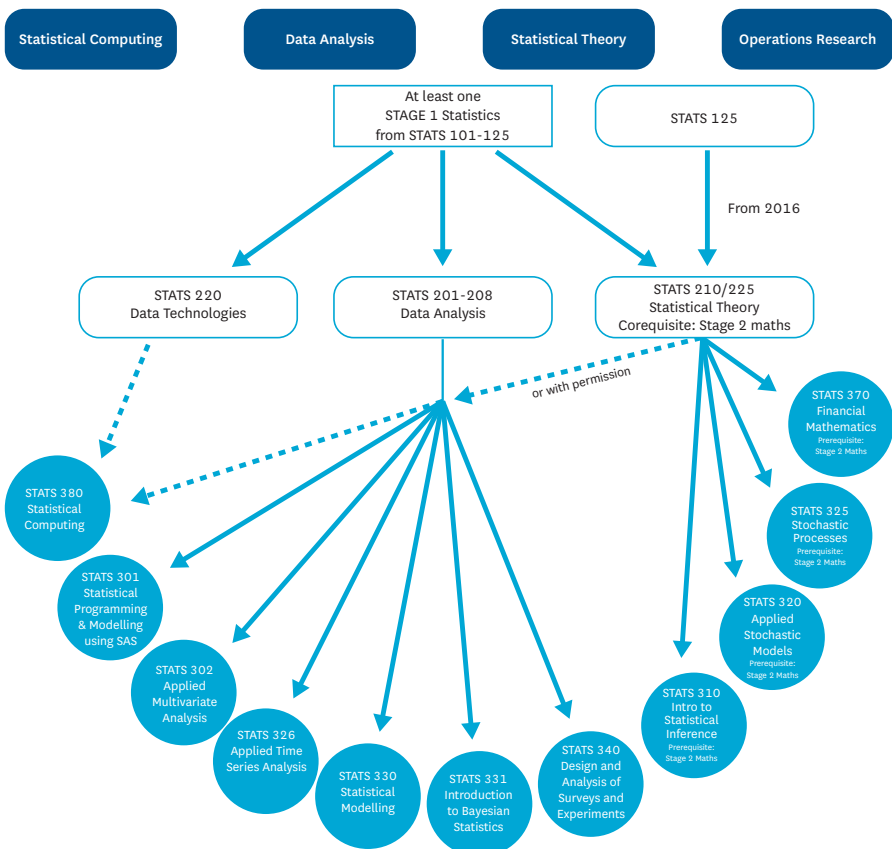
1. Courses in a minimum of three subjects listed in the BSc Schedule.
2. At least 180 points (12 courses) must be above Stage 1.
3. Up to 30 points (2 courses) may be taken from outside the Faculty.
4. 30 points (2 courses) must be taken from the appropriate General Education Schedules for BSc students.
5. At least 75 points must be at Stage III, of which 60 points must be in the majoring subject.

To view regulations for majors, and course descriptions, see www.calendar.auckland.ac.nz
 BSc degree requires: 360 points (24 x 15 point courses). Each box represents one 15 point course.
 It is recommended that students enrol in 8 courses each year.

Undergraduate Statistics Programme

The Statistics Programme is depicted below

Applied Statistics courses:	Any Stage 1; STATS 201, STATS 208; STATS 301, STATS 302, STATS 326, STATS 330, STATS 331, STATS 340
Theoretical Statistics courses:	STATS 125; STATS 210; STATS 225; STATS 310, STATS 320, STATS 325, STATS 370. MATHS 340 very useful if going on to postgraduate study
Statistical Computing courses:	STATS 220; STATS 301, STATS 380
Operations Research courses	STATS 125; 255; 325, 320; ENGSCI 391



For course descriptions and prerequisites, go to www.stats.auckland.ac.nz/courses



Careers in Statistics

Statistics is the human side of the computer revolution, an information science, the art and science of extracting meaning from seemingly incomprehensible data. Statistics applies to almost any field. For this reason, many students find it complements their core area of interest or degree extraordinarily well, giving them an additional string to their bow that opens up new and exciting career opportunities.

- Academic research
- Actuary
- Banking
- Bioinformatics
- Biology
- Business analysis
- Data Scientist
- Ecology
- Education
- Energy
- Engineering
- Finance
- Government
- Market research
- Marketing
- Medical statistics
- Operations research
- Organisational psychology
- Policy development
- Statistician (eg, Biometrician)

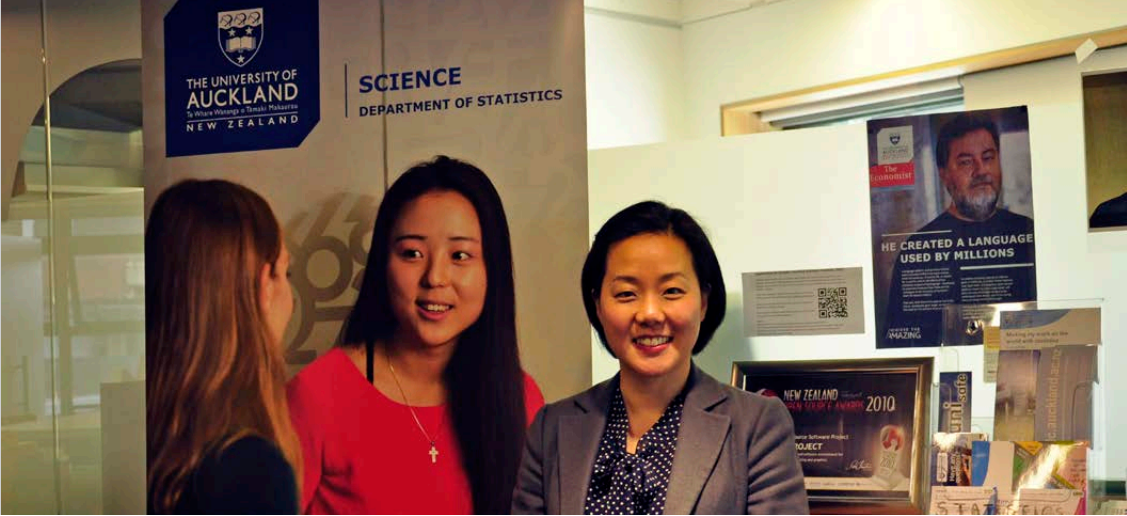
"I love learning and solving problems involving numbers. Studying honours in Statistics nurtured my undergraduate knowledge in Statistics helping me unveil the fundamental reasons and theoretical sides of the topics taught at undergraduate level. This made me strongly connected with Statistics preparing me to feel more confident to apply Statistics in the real world.

"The lectures are excellently organized and the professors/lecturers at this university are so passionate about teaching. The papers offered at the postgraduate level really bring the study at another level. I believe that this qualification can lead me to endless kinds of opportunities after study."

Lia Ji Soo Lee studied toward a Bachelor of Science (hons) in Statistics and is now studying toward a Master of Science majoring in Statistics.

Disclaimer

Although every reasonable effort is made to ensure accuracy, the information in this document is provided as a general guide only for students and is subject to alteration. All students enrolling at the University of Auckland must consult its official document, the University of Auckland Calendar, to ensure that they are aware of and comply with all regulations, requirements and policies.



Helpful information

Academic dates	www.auckland.ac.nz/dates
Academic Integrity Course	www.auckland.ac.nz/academic-integrity
Accommodation	www.accommodation.auckland.ac.nz
Buy coursebooks	www.science.auckland.ac.nz/resource-centre
Career Development and Employment Services	www.auckland.ac.nz/careers
Course advice and degree planning in Science	www.science.auckland.ac.nz/student-centre
General education	www.auckland.ac.nz/generaleducation
How to apply	www.apply.auckland.ac.nz
How to enrol	www.auckland.ac.nz/enrolment
International students	www.international.auckland.ac.nz
Māori and Pacific students	www.science.auckland.ac.nz/tuakana
Need help?	www.askauckland.ac.nz
Rainbow Science Network for LGBTI students	www.science.auckland.ac.nz/rainbowsience
Scholarships and awards	www.scholarships.auckland.ac.nz
Support for students	www.science.auckland.ac.nz/support

Applications close on December 8 for Semester 1 or December 1 for Summer School.

Questions about Statistics? Email office@stat.auckland.ac.nz



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