Bachelor of Science

Major in Statistical Data Science

ASSUMED KNOWLEDGE

- For Astronomy and Astrophysics, Mathematics, Statistical
- Data Science and Applied Physics majors: HSC Mathematics Advanced (Band 4), or equivalent.

 If you haven't met the required minimum level of achievement (Band 4 or equivalent), you can undertake an alternative introductory unit of study in that area.

RECOMMENDED STUDIES

- HSC Mathematics Advanced or equivalent, at least 2 units of
- For Astronomy and Astrophysics, and Applied Physics majors: HSC Physics.
- For Mathematics major: HSC Mathematics Extension 1 (Band E2) or HSC Mathematics Extension 2, or equivalent.

COURSE STRUCTURE

EXIBLE ZONE

ESSENTIAL	UNITS: Complete each unit below	20 cp
FOSE1000	Becoming a Scientist	
FOSE2000	The Science Practitioner	
CAPSTONE	UNIT: Complete each unit below	10 ср
FOSE3000	Making Science Work for You and Society	r: Capstone
ELECTIVE (JNITS: Statistics (choose one)	10 cp
STAT1170	Introductory Statistics	
STAT1371	Statistical Data Analysis	
ELECTIVE	JNITS: Data & Computing	10 cp

Students enrolling in Astronomy and Astrophysics, Applied Physics, Mathematics or Statistical Data Science majors must enrol in FOSE1030.
Students enrolling in Biology, Biotechnology, Chemistry, Human Biology, and Earth and Environmental Sciences majors must enrol in FOSE1025.
Students enrolling in double majors that require both FOSE1025 and FOSE1030 can complete the other Data & Computing unit not selected below in the Other Science - 20 credit points option set. option set.

FOSE1025 Scientific Computing

FOSE1030 Introduction to Python Programming

ELECTIVE UNITS: Other Science (Choose one)

Complete 20 credit points from Any 1000 or 2000 level unit coded: ASTR, BIOL, CHEM, EESC, ENVS, MATH, PHYS, STAT, BMOL, MOLS, FOSE.

ELECTIVE UNITS: PACE (Choose one) 10 C	р
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STAT3599 PACE: Professional Practice for Statistical Data

MOLS3002 PACE: Engaging the Community in Science

Core Zone = 80 Credit Points

	Statistical Data Science: all units below	80 cp
STAT1379	Statistical Technologies for Data Science	
STAT2114	Design of Experiments and Surveys	
STAT2170	Statistical Data Analytics	
STAT2173	Introduction to Probability	
STAT3103	Multivariate Analysis and Statistical Learning	
STAT3301	Regression and Time Series (Advanced)	
STAT3310	Statistical Inference (Advanced)	
ELECTIVE I	INIT: Chaose one unit from	10 cn

ELECTIVE UNIT: Choose one unit from MATH1010 Calculus and Linear Algebra I

MATH1015 Calculus and Linear Algebra I (Advanced)

Major = 80 Credit Points

Flexible zone

80 ср

You can use your flexible zone to enrol in any Undergraduate unit for which you meet the requisites. You may also use your flexible zone to complete a second major, listed below, or a minor(s).

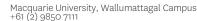
Options include: Ancient History, Anthropology, Applied Physics, Astronomy and Astrophysics, Biology, Biotechnology, Business Administration, Business Analytics, Business Information Systems, Chemistry, Chinese Studies, Creative Writing, Criminology, Critical Indigenous Studies, Cyber Security Governance, Earth and Environmental Sciences, Economics, English, French and Francophone Studies, Gender Studies, Geography, German Studies, Health, Wellbeing and Society, Human Biology, Human Resource Management, Interactive Design, International Business, International Relations, Japanese Studies, Journalism and Non-Fiction Writing, Management and Leadership, Marine Science, Mathematics, Media, Culture and Communications, Modern History, Music Studies, Performing Arts and Entertainment Industries, Philosophy, Politics, Psychological Science, Public Relations and Social Media, Radio, Podcasting, and Audio Media, Screen Practice and Production, Sociology, Spanish and Latin American Studies, Statistical Data Science, Strategy, Innovation and Entrepreneurship, Work, Life and Technology

Flexible Zone = 80 Credit Points

Degree = 240 Credit Points

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CORE ZONE