Bachelor of 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 science.
- 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

CORE ZONE

ESSENTIAL UNITS: Complete each unit below	20 cp
FOSE1000 Becoming a Scientist	
FOSE2000 The Science Practitioner	

CAPSTONE UNIT: Complete each unit below	10 cp
FOSE3000 Making Science Work for You and Society: Capstone	

ELECTIVE UNITS: Statistics (choose one)	10 cp
STAT1170 Introductory Statistics	
STAT1371 Statistical Data Analysis	

ELECTIVE UNITS: 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.

FOSE1025 Scientific Computing	
FOSE1030 Introduction to Python Programming	

ELECTIVE UNITS: Other Science (Choose one)	20 cp

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 cp
BIOL3640 PACE: Experience in Biological Sciences	
EESC3000 PACE: In Earth and Environmental Sciences	
MATH3599 PACE: Professional Practice for Mathematical Sciences	
STAT3599 PACE: Professional Practice for Statistical Data Sciences	
MOLS3002 PACE: Engaging the Community in Science	
MOLS3003 PACE: Molecular Sciences Project	
PHYS3810 PACE: Professional Experience in Physics and Astronomy	

Core Zone = 80 Credit Points

MAJOR

MAJOR: Complete one major from the following options.	
Applied Physics	80 cp
Astronomy and Astrophysics	80 cp
Marine Science	80 cp
Biology	80 cp
Biotechnology	80 cp
Chemistry	80 cp
Earth and Environmental Sciences	80 cp
Human Biology	80 cp
Mathematics	80 cp
Statistical Data Science	80 cp

Major = 80 Credit Points

FLEXIBLE ZONE

Flexible zone	80 cp

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

SCAN THE QR CODE TO FIND OUT MORE

https://www.mq.edu.au/study/find-a-course/courses/2026/bachelor-of-science

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