Bachelor of Science

Major in Astronomy and Astrophysics

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

ESSENTIAI	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)	10.00
		10 ср
STAT1170	Introductory Statistics	10 ср
	Introductory Statistics	юср
STAT1170 STAT1371	Introductory Statistics	10 ср

- Students enrolling in <u>Astronomy and Astrophysics</u>, Applied Physics, Mathematics or <u>Statistical Data Science</u> majors must enrol in <u>FOSE1030</u>. Students enrolling in <u>Biology</u>, Biotechnology, Chemistry, Human Biology, and Earth and Environmental Sciences majors must enrol in <u>FOSE1025</u>.
- 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)

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

ELECTIVE UNITS: PACE (Choose one)		10 ср
BIOL3640	PACE: Experience in Biological Sciences	

MOLS3002 PACE: Engaging the Community in Science

Core Zone = 80 Credit Points

MAJOR in As Complete al	stronomy and Astrophysics l units below	80 cp
PHYS1010	Modern Mechanics	
PHYS1020	Electric and Magnetic Interactions	
PHYS2010	Classical Mechanics	
PHYS2020	Electromagnetism and Relativity	
ASTR2020	Observational Astronomy	
ASTR3010	Astrophysics of Radiation and Stars	
ASTR3020	Extragalactic Astronomy and Cosmology	
ASTR3110	Data Science Techniques in Astrophysics	

Major = 80 Credit Points

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).

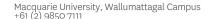
Options include: Ancient History, Anthropology, Applied Physics, Astronomy and Astrophysics, Biology, Biotechnology, Business Administration, Business Analytics, Business Information Systems, Chemistry, Chinese Studies, Creative Writing, Criminology, Critical Indigenous Studies, Cyber Security Governance, 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 Nicolay Music Studies, Performing Asta and Entertainment History, Music Studies, Performing Arts and Entertainment Industries, Philosophy, Politics, Psychological Science, Public Relations and Social Media, Radio, Podcasting, and Audio 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