

Bachelor of Science

Major in Mathematics

ENTRY REQUIREMENTS

Assumed Knowledge
Recommende

For astronomy and astrophysics, mathematics, statistical data science and 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.

nded HSC Mathematics Advanced or equivalent, at least 2 units of science. For astronomy and astrophysics, and physics majors: HSC Physics. For mathematics major: HSC Mathematics Extension 1 (Band E2) or HSC Mathematics Extension 2, or equivalent.

CORE ZONE

Essential units = Each unit is 10 credit points.		
Capstone u	nit = 10 credit points	Ele
FOSE3000	Making Science Work for You and Society: Capstone	Co
Essential ur	its = 20 credit points	M
FOSE1000	Becoming a Scientist	M
FOSE2000	The Science Practitioner	Ele
Statistics E	lective units = 10 credit points	Co
Complete 1	o credit points from the following units	M/
STAT1103	Introduction to Psychological Design and Statistics	Es
STAT1170	Introductory Statistics	Co
STAT1371	Statistical Data Analysis	M
Data and Co	omputing Elective units = 10 credit points	M
Complete 1	o credit points from the following options.	Ele
Statistica • Student of Biology, Sciences • Students and FOS	enrolling in Astronomy, Physics, Mathematics or al Data Science majors must enrol in FOSE1030. enrolling in Biology, Biotechnology, Chemistry, Human Earth and Environmental Sciences, and Physiological major must enrol in FOSE1025. enrolling in double majors that requires both FOSE1025 E1030 can complete the other Data & Computing unit not below in the Other Science - 20 credit points option set.	Co M/ M/ Ele
FOSE1025	Scientific Computing	Co
FOSE1030	Introduction to Python Programming	M
Other Scien	ce Elective units = 20 credit points	M
20 credit poir PSYU, STAT,	nts from ASTR, BIOL, CHEM, EESC, ENVS, MATH, PHYS, BMOL, MOLS, FOSE units at 1000 or 2000 level	M/
Elective uni	t = 10 credit points	M
Complete 10	credit points from the following PACE units	M

MATH3599	PACE: Professional Practice for Mathematical Sciences

MOLS3002 PACE: Engaging the Community in Science

MAJOR

Major requirements = 80 credit points				
Elective Units = 10 credit points				
Complete 10 credit points from the following options.				
MATH1010	Calculus and Linear Algebra I			
MATH1015	Calculus and Linear Algebra I (Advanced)			
Elective Units	= 10 credit points			
Complete 10 c	redit points from the following options.			
MATH1020	Calculus and Linear Algebra II			
MATH1025	Calculus and Linear Algebra II (Advanced)			
Essential Unit	s = 20 credit points			
Complete all of the following units				
MATH2010	Calculus and Linear Algebra III			
MATH2020	Vector Calculus and Complex Analysis			
Elective Units = 10 credit points				
Complete 10 c	redit points from the following options.			
MATH2110	Mathematical Modelling and Differential Equations			
MATH2210	Pure Mathematics			
Elective Units	= 30 credit points			
Complete 30 o	credit points from the following options.			
MATH3900	Geometry and Topology			
MATH3902	Nonlinear Dynamics and Chaos			
MATH3905	Methods for Mathematical Computation			
MATH3906	Partial Differential Equations			
MATH3907	Algebra IIIA			
MATH3909	Real and Functional Analysis			
FLEXIBLE ZONE				
Flexible Zone	e = 80 credit points			

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 or minor(s)