MATHEMATICS, MAJOR (0059)

Western Sydney University Major Code: 0059

Previous Code: M3054.1

Available to students in other Western Sydney University Programs: Yes. Check that your program has the available credit points required to complete the subjects in this field of study. Any requisite requirements must also be met. Consult your Program Advisor for further advice.

Mathematics is essential for modelling phenomena in various fields, so many employers these days set a lot of store by mathematical skills. This major covers some basics, but it also allows you to choose topics on which you want to focus. No matter what your area of study is, if you have an interest in mathematics, this major gives you the opportunity to use the elective space in your program to pick up additional skills that will be useful throughout your career. Prospective teachers can tailor this major to meet the NESA requirements for "Mathematics" as first teaching area.

Location

Campus	Mode	Advice
Campbelltown Campus	Internal	CDMS@westernsydney.edu.au
Parramatta Campus - Victoria Road	Internal	CDMS@westernsydney.edu.au

Major Structure

Students must complete a total of eight subjects at Levels 1, 2, and 3, including no more than three subjects at Level 1 and at least three subjects at Level 3, taking into account any prerequisite requirements of individual subjects.

Subject	Title	Credit Points
Level 1		
No more than three subjects at Level 1 may be included.		
MATH 1006	Discrete Mathematics	
MATH 1014	Mathematics 1A	10
MATH 1015	Mathematics 1B	10
MATH 1028	Statistical Decision Making	10
Level 2		
MATH 2001	Advanced Calculus	
MATH 2003	Differential Equations	
MATH 2010	Linear Algebra	10
COMP 2023	Mathematical Programming	10
Level 3		
At least three subjects at Level 3 must be included.		
MATH 3003	Analysis	
MATH 3006	Mathematical Modelling	
MATH 3015	Groups and Symmetry	10
MATH 3013	Fields and Equations	10
MATH 3012	Combinatorics	10
Total Credit Points		**80**

Related Programs

Bachelor of Arts (Pathway to Teaching Secondary) (1652) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-arts-pathway-teaching-secondary/)

Bachelor of Arts (Pathway to Teaching Secondary) Dean's Scholars (1823) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-arts-pathway-teaching-secondary-deans-scholars/)

Bachelor of Information and Communications Technology (3639) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-information-communications-technology/)

Bachelor of Information and Communications Technology (Advanced) (3684) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-information-communications-technology-advanced/)

Bachelor of Information Systems (3687) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-information-systems/)

Bachelor of Information Systems Advanced (3688) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-information-systems-advanced/)

Diploma in Arts/Bachelor of Arts (Pathway to Teaching Secondary) (6021) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/diploma-arts-bachelor-arts-pathway-teaching-secondary/)

Diploma/Bachelor of Information and Communications Technology (6039) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/diploma-bachelor-information-communications-technology/)

Diploma in Information and Communications Technology / Bachelor of Information Systems (6040) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/diploma-information-communications-technology-bachelor-information-systems/)