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DATA SCIENCE, TESTAMUR MAJOR (T079)

Western Sydney University Major Code: T079

Previous Code: MT3038.1

Available to students in other Western Sydney University programs?

Data is ubiquitous, and analysing data plays an increasingly important role in many careers. Data Science is based on mathematics and statistics, but there is more to it: a Data Scientist has the required expertise to convert all forms of data into valuable information. Building on the Bachelor of Mathematics, this major equips graduates with additional skills and knowledge for designing experimental studies, building and fitting of models, visualisation, estimation and prediction, storage and retrieval of big data. Such skills are essential for tasks such as the analysis of customer transactions and behaviour, scientific investigations, financial trends, and online behaviour.

Location

	search/e	directory.westernsydney.o search/email/ v.gebhardt@westernsydn		
Recomme	nded Sequence			
	ccessfully complete 80 credit points as	per the		
Full-time star	t-year intake			
Course	Title	Credit Points		
Year 1				
Spring session				
MATH 2011	Making Sense of Data	10		
COMP 2025	Introduction to Data Science	10		
	Credit Points	20		
Year 2				
Autumn session				
COMP 1013	Analytics Programming	10		
	Credit Points	10		
Spring session				
COMP 2014	Object Oriented Programming	10		
	Credit Points	10		

Year 3 **Autumn session**

COMP 2026	Visual Analytics	10
MATH 3011	Probabilistic Models and Inference	10
	Credit Points	20
Spring session		
MATH 3005	Environmental Informatics	10
COMP 3020	Social Web Analytics	10
	Credit Points	20
	Total Credit Points	80

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2021 or earlier.

MATH 2009 Introduction to Data Science, replaced by COMP 2025 Introduction to Data Science

MATH 1002 Analytics Programming, replaced by COMP 1013 Analytics Programming

MATH 2014 Visual Analytics, replaced by COMP 2026 Visual Analytics

Social Web Analytics

Probabilistic Models and Inference

Environmental Informatics

Credit Points

Credit Points

Credit Points

Total Credit Points

Campus	Mode	Advice	Part-time start-year intake		
Campbelltown Campus Internal		Associate Professor Volker	Course	Title	Credit Points
		Gebhardt (https:// directory.westernsydney. search/email/ v.gebhardt@westernsydn	Spring session	Making Sense of Data	10
Parramatta Campus - Internal Victoria Road	Internal	Associate Professor Volker	Year 2	Credit Points	10
		Gebhardt (https:// directory.westernsydney. search/email/	Spring session edu.au/ COMP 2025	Introduction to Data Science	10
		v.gebhardt@westernsydn	ey.edu.au)	Credit Points	10
Penrith Campus Intern	Internal	Professor Volker Gebhardt (https://	Year 4		
			COMP 1013	Analytics Programming	10
		directory.westernsydney.e search/email/	eu u.au/	Credit Points	10
		v.gebhardt@westernsydn	eySpying Session		
		COMP 2014	Object Oriented Programming	10	
Recommended Sequence Students must successfully complete 80 credit points as per the recommended sequences below.			Credit Points	10	
		Year 5			
		Autumn session			
Full-time start-year intake		COMP 2026	Visual Analytics	10	
•		6 "		Credit Points	10
Course	Title	Credit	Spring session		

COMP 3020

Autumn session MATH 3011

Spring session MATH 3005

Year 6

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2021 or earlier.

MATH 2009 Introduction to Data Science, replaced by COMP 2025 Introduction to Data Science

MATH 1002 Analytics Programming, replaced by COMP 1013 Analytics Programming

MATH 2014 Visual Analytics, replaced by COMP 2026 Visual Analytics

Related Programs

Bachelor of Mathematics (3778) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelormathematics/)