DATA SCIENCE, TESTAMUR MAJOR (T079)

Western Sydney University Major Code: T079

Previous Code: MT3038.1

Available to students in other Western Sydney University programs? No

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

Spring session COMP 2014

Object Oriented Programming

Credit Points

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

Campus	Mode Advice		Part-time start-year intake			
Campbelltown Campu	Associate Professor Volker Gebhardt (https://		Course	Title	Credit Points	
		directory.westernsydney. search/email/ v.gebhardt@westernsydr		ed Vea u/I		
				Spring session		
				exedura2011	Making Sense of Data	10
Parramatta Campus - Victoria Road	- Internal	Associate			Credit Points	10
		Professor Volker Gebhardt (https:// directory.westernsydney. search/email/ v.gebhardt@westernsydr		Year 2		
				Spring session		
				COMP 2025	Introduction to Data Science	10
				ey.edu.au)	Credit Points	10
Penrith Campus	Internal	Associate		Year 4		
		Professor Volker Gebhardt (https:// directory.westernsydney. search/email/ v.gebhardt@westernsydr		Autumn session		
				COMP 1013	Analytics Programming	10
				ed u.au/	Credit Points	10
				Springsession		
v.gebhaldt@westernsyt				COMP 2014	Object Oriented Programming	10
Recommended Sequence					Credit Points	10
	•	points as per the		Year 5		
Students must successfully complete 80 credit points as per the recommended sequences below.				Autumn session		
				COMP 2026	Visual Analytics	10
Full-time start-year intake					Credit Points	10
Course	Title	Credit		Spring session	orear roms	10
			Points	COMP 3020	Social Web Analytics	10
Year 1				001011 3020	Credit Points	10
Spring session				Year 6	Creat Follits	10
MATH 2011	Making Sense of Data		10			
COMP 2025	Introduction to Data Science 10		10	Autumn session MATH 3011	Probabilistic Models and Inference	10
	Credit Points 20		20	MATH 3011		10
Year 2				o	Credit Points	10
Autumn session				Spring session		
COMP 1013	Analytics Programming		10	MATH 3005	Environmental Informatics	10
	Credit Points		10		Credit Points	10
Spring session					Total Credit Points	80

10

10

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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/2021-2022/programs/bachelormathematics/)