



MASTER OF DATA SCIENCE (3735)

Increasingly in the digital age data plays an important role in most, if not all, occupations. Extracting information from data has become a science in itself, blending skill sets from mathematics, statistics and computing. With a strong applications focus, this program covers the nature of data including Big and Unstructured Data, how to embark on data driven investigations and visual and computational analytics. The program graduates will have the knowledge and skills required to operate effectively in a data driven world.

Studying this program will provide you with extensive scientific skills and methods to extract meaningful data and solve complex problems.

Entry via: International students apply direct to Western Sydney University. www.westernsydney.edu.au/international/apply

Accreditation: Australian Computer Society at Professional Level

DATA SCIENCE AT WESTERN

Every industry benefits from the correct use of data, as it provides insights into their customers, business and environment. During this program you will learn about the various types of data, the extraction of relevant and meaningful data, as well as developing the analytical skills to turn this data into valuable insights. Throughout your studies you will learn how to efficiently identify trends, understand customers and predict behaviour, detect fraud, and identify credit risk.

Our Master of Data Science provides a strong applications focus, covering the nature of data, including Big Data and data driven investigations, as well as visual and computational analytics.

On completion of the program, you will have completed two self-guided master projects, and will graduate with the confidence and skills to draw out meaningful insights with actionable metrics.

For program advice, please email CDMS@westernsydney.edu.au

PROGRAM STRUCTURE

YEAR 1

SESSION 1 AUTUMN

SUBJECT CODE	SUBJECT TITLE
COMP 7024	Programming for Data Science
MATH 7016	The Nature of Data
COMP 7003	Big Data
COMP 7016	Visualisation

SESSION 2 SPRING

COMP 7006	Data Science
MATH 7002	Advanced Statistical Methods
COMP 7023	Predictive Analytics
One elective subject	

YEAR 2

SESSION 3 AUTUMN

COMP 7025	Social Media Intelligence
INFO 7016	Postgraduate Project A
MATH 7017	Probabilistic Graphical Models
One elective subject	

SESSION 4 SPRING

INFO 7001	Advanced Machine Learning
INFO 7017	Postgraduate Project B
Two elective subjects	

MAJORS

Students may use their elective subjects towards obtaining one of the approved Majors

T002	Artificial Intelligence, Testamur Major
T003	Cybersecurity, Testamur Major
T089	Digital Health, Testamur Major
T007	Health Informatics, Testamur Major
T141	Health Science Modelling and Research, Testamur Major
T021	Public Health, Testamur Major
T030	Space Science, Testamur Major

Alternatively, students may use their elective subjects towards completing 40 credit points from one of the following Master of Business Administration AACSB approved Majors.

0226	Finance, Major
0232	Information and Communications Technology, Major
0038	Innovation and Entrepreneurship, Major
0235	Logistics and Supply Chain Management, Major
0136	Management, Major
0137	Marketing, Major

PROGRAM	CRICOS CODE	WS CODE	INTAKE	LOCATION	DURATION
M Artificial Intelligence	089442E	3735	March/July	Parramatta	3F

Key: M = Master of; F = Full-time.

CRICOS PROVIDER 00917K

For more information, please call the Course Information Centre on **1300 897 669** or email study@westernsydney.edu.au