WESTERN SYDNEY UNIVERSITY

BACHELOR OF DATA SCIENCE (3769)

Analysis of data is essential for scientific investigation, modelling processes and predicting future events. Data Science is the investigation of the tools required that allow us to perform this modelling and prediction. The increase in accessible data over the past few decades has promoted the use of Data Science, making it a desired skill in many professions. The Bachelor of Data Science equips our graduates with the skills and knowledge for designing experimental studies, building and fitting models for analysis, visualisation, estimation and prediction, machine learning for prediction, analysis of complex data relationships, storage and retrieval of big data. These skills are essential for the analysis of customer transactions and behaviour, scientific investigations, financial trends, and online behaviour in the new world

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

BE SKILLED FOR THE NEW WORLD

In the Bachelor of Data Science students will carry out a real life project transforming data to knowledge under the supervision of an academic mentor. Students will learn the key techniques and latest industry applications used in big data applications and understand major concepts of information visualisation, human computer perception and methods for visual data analysis.

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

PROGRAM STRUCTURE

YEAR 1
SESSION 1 AUTUMN

SUBJECT CODE	SUBJECT TITLE
NATS 1019	Scientific Literacy
COMP 1014	Thinking About Data
MATH 1006	Discrete Mathematics
COMP 1005	Programming Fundamentals

SESSION 2 SPRING

MATH 1014	Mathematics 1A
COMP 2025	Introduction to Data Science
Two major, minor or elective units	

YEAR 2
SESSION 3 AUTUMN

COMP 1013	Analytics Programming
COMP 2026	Visual Analytics
Two major, minor or elective units	

SESSION 4 SPRING

COMP 3032	Machine Learning
INFS 2001	Database Design and Development
COMP 3020	Social Web Analytics
COMP 2023	Mathematical Programming

YEAR 3
SESSION 5 AUTUMN

COMP 3002	Applications of Big Data
MATH 3011	Probabilistic Models and Inference
INFO 3008	Professional Development
INFO 3019	Project Management
One major, minor or elective unit	

SESSION 6 SPRING

COMP 3035	Discovery Project
Three major, minor or elective subjects	

MAJORS

T007	Health Informatics
0261	Technology Entrepreneurship, Major

MINORS

0031 Artificial Intelligence, Minor	0290 International Business, Minor
0096 Astroinformatics, Minor	0293 Macroeconomics, Minor
0286 Creative Leadership, Minor	0292 Management, Minor
0287 Critical and Systems Thinking, Minor	0291 Marketing, Minor
0274 Cybersecurity Networking, Minor	0059 Mathematics, Minor
0277 Cybersecurity Systems, Minor	0289 Property, Minor
0070 Digital Cultures, Minor	0275 Robotics, Minor
0279 Exercise Science, Minor	0148 Statistics, Minor
0196 Global Sustainability, Minor	0276 Video Games, Minor

PROGRAM	CRICOS CODE	WS CODE	INTAKE	LOCATION	DURATION
B Data Science	089203J	3769	March/July	Parramatta	3F

Key: B = Bachelor of; F = Full-time.

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