

GRADUATE CERTIFICATE IN DATA SCIENCE (3751)

Approved Abbreviation: GradCertDataSc
Western Sydney University Program Code: 3751
AQF Level: 8

CRICOS Code: 095724M

Program Status:

This program applies to students who commenced in 2017 or later.

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 introduces the skills needed to embark on data driven investigations.

Study Mode

Six months full-time or one year part-time.

Program Advice

Program Advice (CDMS@westernsydney.edu.au)

Location

Campus	Attendance	Mode	Advice
Parramatta Campus - Victoria Road	Full Time	Internal	See above
Parramatta Campus - Victoria Road	Part Time	Internal	See above

Admission

Applicants must have

- Successfully completed an undergraduate degree, or higher, in any discipline; Or
- Have a minimum of five years full-time equivalent professional work experience

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

Statement of Service form (https://www.westernsydney.edu.au/content/dam/digital/pdf/Statement_of_Service.PDF)

Applications from Australian and New Zealand citizens and holders of permanent resident visas may be made via the Universities Admissions Centre (UAC) or directly through the Western Portal. Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

<http://www.uac.edu.au/>
<https://westernsydney.uac.edu.au/ws/>

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

<http://www.uac.edu.au/>

All other International applicants must apply directly to the University via the International Office.

International students applying to the University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their website.

International Office (<http://www.westernsydney.edu.au/international/>)

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and Western Sydney University.

Program Structure 2017-Autumn 2024

Qualification for this award requires the successful completion of 40 credit points which include the subjects listed below.

Subject	Title	Credit Points
Core Subjects		
COMP 7024	Programming for Data Science	10
MATH 7016	The Nature of Data	10
Select two of the following:		20
COMP 7003	Big Data	
COMP 7006	Data Science	
MATH 7017	Probabilistic Graphical Models	
COMP 7023	Predictive Analytics	
COMP 7025	Social Media Intelligence	
COMP 7016	Visualisation	
Total Credit Points		40

Equivalent Subjects

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

MATH 7011 Predictive Analytics, replaced by COMP 7023 Predictive Analytics

Program Structure 2017-Spring 2024

Qualification for this award requires the successful completion of 40 credit points which include the subjects listed below.

Subject	Title	Credit Points
Core Subjects		
COMP 7024	Programming for Data Science	10
MATH 7016	The Nature of Data	10
Select two of the following:		20
COMP 7003	Big Data	
COMP 7006	Data Science	
MATH 7017	Probabilistic Graphical Models	
COMP 7023	Predictive Analytics	
COMP 7025	Social Media Intelligence	
COMP 7016	Visualisation	
INFS 7007	Systems Analysis and Database Management Systems	
ENGR 7017	Professional Practice and Communication	
Total Credit Points		40