Overview

Data Science is the study of methods for organising, modelling and analysing large and complex data relevant for businesses, governments or other organisations. The information gleaned from the data analysis is intended to improve business decisions and inform policies.

The program provides an advanced technical background in mathematics, statistics, computer science and economics. The Business Data Science major enables a student to specialise further in methods of interpreting, understanding and predicting data for use in business.

The program and this stream open a pathway to exciting careers in data science and data analytics.
Faculty
UNSW Business School

School
School of Economics

Study Level
Postgraduate

Specialisation Type
Specialisation
Learning Outcomes

1. Demonstrate an advanced working knowledge of scientific criteria and methods of investigation, and a concern for objectivity and precision.

   Global Citizens  Professionals

2. Be able to apply the highest ethical standards to their professional and personal lives.

   Global Citizens  Professionals

3. Be able to apply advanced business sensibilities to real-world problems involving complex data sets.

   Global Citizens  Scholars

4. Demonstrate knowledge and skills in formulating problems involving both qualitative and quantitative data.

   Scholars  Professionals

Graduate Capabilities:

For more information on Graduate Capabilities, please click on this link.
Specialisation Structure

Students must complete 30 UOC.

**CORE COURSES 1**

Students must take 12 UOC of the following courses.

ECON5321  6 UOC
Industrial Organisation

ECON6202  6 UOC
Policy Evaluation Methods

**CORE COURSES 2**

Students must take 12 UOC of the following courses.

ECON5206  6 UOC
Financial Econometrics

ECON5324  6 UOC
Behavioural Economics

ECON6307  6 UOC
Health Economics

ECON6310  6 UOC
Experimental and Behavioural Economics

ECON6312  6 UOC
Policy Applications of Behavioural Economics

ECON6313  6 UOC
Public Economics and Regulation

FINS5548  6 UOC
Financial Technology

INFS5700 | 6 UOC
Introduction to Business Analytics

INFS5831 | 6 UOC
Information Systems Consulting

MARK5822 | 6 UOC
Marketing Analytics in a Big Data World

**Prescribed Electives**

Students must take at least 6 UOC of the following courses.

COMP6714 | 6 UOC
Information Retrieval and Web Search

COMP9024 | 6 UOC
Data Structures and Algorithms

COMP9313 | 6 UOC
Big Data Management

ECON5206 | 6 UOC
Financial Econometrics

ECON5324 | 6 UOC
Behavioural Economics

ECON6307 | 6 UOC
Health Economics

ECON6310 | 6 UOC
Experimental and Behavioural Economics
ECON6313 | 6 UOC
Public Economics and Regulation

FINS5548 | 6 UOC
Financial Technology

INFS5700 | 6 UOC
Introduction to Business Analytics

INFS5831 | 6 UOC
Information Systems Consulting

MARK5822 | 6 UOC
Marketing Analytics in a Big Data World

MATH5165 | 6 UOC
Optimization

MATH5171 | 6 UOC
Linear and Discrete Optimization Modelling

MATH5425 | 6 UOC
Graph Theory

MATH5806 | 6 UOC
Applied Regression Analysis

MATH5836 | 6 UOC
Data Mining and its Business Applications

Enrolment Disclaimer

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW
enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179