This professional degree is for people who are passionate about building intelligent data-driven systems to support business decisions or drive research output.

Data is a vital asset to an organisation. It can provide valuable insights into areas such as customer behaviour, market intelligence and operational performance.

Data scientists build intelligent systems to manage, interpret, understand and derive key knowledge from this data.

For those with strong mathematical or quantitative backgrounds, this degree will develop your analytical and technical skills to use data science to guide strategic decisions in your area of expertise. It offers the flexibility to tailor your learning to your professional and personal interests.

Leveraging the University’s research strengths, you will explore the latest in data mining, machine learning and data visualisation, while developing the skills to effectively communicate data insights to key stakeholders.

For those with qualifications in other areas such as health and education, a Graduate Certificate in Data Science can provide you with data science capability to complement your existing skills and provide a pathway to the master’s program.

We also offer a pathway for eligible candidates planning to pursue a research degree.

Apply now

To apply, or for more information visit: sydney.edu.au/courses/master-of-data-science
Course structure

The course comprises core units, elective units and a capstone project where you will apply your skills to a real-world data science problem. You can tailor your degree by selecting elective units and a project that complement your particular interests, background and qualifications.

Master of Data Science core units
- Principles of Data Science
- Computational Statistical Models
- Visual Analytics
- Knowledge Discovery and Data Mining.

Graduate Certificate in Data Science core units
- Principles of Data Science
- Algorithms
- Database Management Systems
- Introduction to Statistics.

You can select elective units from the following data science subjects, or from other disciplines relevant to your background and qualifications.

Data science elective units
- Advanced Data Models
- Cloud Computing
- Multimedia Retrieval
- Data Analytics and Business Intelligence
- Information Security Management
- Statistical Learning and Data Mining
- Statistical Natural Language Processing
- Predictive Analytics.

Course duration

Master of Data Science
1 year full time

Graduate Certificate in Data Science
0.5 years full time

Graduate Certificate + Master of Data Science
1.5 years full time

Admission requirements

To apply for the Master of Data Science, you need to have a recognised bachelor’s degree with honours in a quantitative discipline such as computer science, mathematics, statistics, engineering, physics, economics or finance. Alternatively, you should have qualifications deemed equivalent by the University.

For those without a quantitative background, the graduate certificate offers a pathway to the master’s program.

More information

To view detailed information including units of study, visit
– sydney.edu.au/courses/master-of-data-science

For more information

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