

Master of Data Science



Boost your career in the dynamic field of data science.

Whether you're already working in data science, or you're ready to make a career change, our Master of Data Science prepares you for a successful career in this exciting field.

Learn from industry leaders and award-winning academics, while distinguishing your expertise with an industry-aligned specialisation of your choice, including:

- Artificial intelligence analytics
- Big data and cloud computing
- Bioinformatics
- Business applications
- Data modelling and analytics
- Mathematical data science
- Sport analytics



Course details

CRICOS
092396B

Location/course code
Melbourne (SMDS)

Intake
Semester 1 (February 2022)
Semester 2 (July 2022)
Summer (November 2022)

Annual tuition fee
A\$36 800 per 120 credit points.¹

Duration
2 years full-time

Academic entry requirements

Applicants are required to have successfully completed an Australian Bachelor's degree (or equivalent).

Advanced standing

Credit for previous study (advanced standing) is the recognition of prior study or learning that can be counted towards a qualification. This can reduce the number of subjects required to complete your course. The amount of credit received depends on the level and relevance of your previous study and the number of subjects completed.

IELTS
6.5/6.0

Full details at: latrobe.edu.au/int-smds

Scholarships

From tuition fee reductions to cash grants, we've increased the range of scholarships we offer. Discover the La Trobe scholarship for you: latrobe.edu.au/int-scholarships



We're ranked

'above world standard'

for our research in information systems, mathematical and statistical sciences.²



LA TROBE
UNIVERSITY

A U S T R A L I A

1. 120 credit points represents full-time study for one year.
2. Australian Research Council, 2019, *Excellence in Research for Australia (ERA) Outcomes 2018*.



La Trobe is in the
top 1%
of universities worldwide³

La Trobe is in the
top 50
universities across
East Asia, South-East
Asia and Oceania⁴

1. Build your ability to lead in data science

You'll learn:

- **Data science**
 - Get practical experience with open-source software and platforms, including Python, R and Hadoop.
 - Understand database fundamentals, programming languages such as Java and Python, and cloud-based services offered by Amazon, Google, IBM and Microsoft.
- **Mathematics and statistics**
 - Learn how to create complex models and use powerful tools for advanced analysis and problem-solving.
 - Build your skills using real data sets from our industry partners and learn how to solve data challenges facing businesses and organisations.
- **Project management**
 - Learn how to manage large-scale IT projects and work in a team to develop a small-scale, industry-based system.
- **Complementary skills in other disciplines**
 - Boost your knowledge through electives in business, health sciences, artificial intelligence and cybersecurity.

2. Gain industry experience

- Learn from **leading academics** and industry practitioners. This course was developed through our partnerships with **industry leaders**, business professionals and technology companies.
- Get **hands-on industry experience** at organisations such as Telstra, Australian Institute of Sport and the Peter MacCallum Cancer Centre.
- Our industry connection with Microsoft gives you access to **free certifications** in Microsoft Azure, Microsoft 365 and the Microsoft Office suite. These certifications – which you'll gain via on-campus exams – are applicable across a range of industries.

3. Carve your unique path

Tailor your studies to your personal interests and professional goals. You'll have option to specialise in areas such as artificial intelligence, big data and cloud computing, bioinformatics, data modelling and analytics, or sport analytics.

If your sights are set on a research career, you can choose to undertake a thesis in computer science or statistics.

The need for data scientists is at an all-time high. Organisations of all sizes are seeking to understand the massive amounts of data now at their disposal.

After graduation, you could work across a range of industries, including business and finance, science, education, health, and sport. You could apply for roles such as:

- **Data scientist:** Understand complex data and leverage it to the advantage of businesses and organisations.
- **Business analyst:** Understand how businesses run and use data to solve problems and improve processes.
- **Health analyst:** Gather, analyse and verify healthcare information.
- **Bioinformatician:** Develop methods of research and analysis for understanding and leveraging biological and genomic data.
- **Machine learning engineer:** Use your detailed understanding of machine learning, big data, cloud technology and mathematics to create effective machine learning solutions.

3. Times Higher Education (THE), 2021, *World University Rankings 2022*; Consejo Superior de Investigaciones Científicas (CSIC), 2020, *Ranking Web of Universities*.

4. Times Higher Education (THE), 2019, *Best universities in the Asia-Pacific region 2019*.

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