

# Master of Business Analytics

## 1. About the Master of Business Analytics

The Master of Business Analytics develops the body of knowledge and skills required to succeed in a data-centric world. This innovative, multi-disciplinary course is designed to meet the global demand for professionals with business acumen and competencies in converting data into valuable insights and solutions. Gaining theoretical and practical knowledge of the analytical lifecycle will help you diversify your career path as a business analyst or build new skills delivering data-driven business and social solutions. Fundamental knowledge and skills in key analytical areas such as artificial intelligence, data, optimisation, and visualisation and storytelling will be developed. Contemporary technologies and communication techniques will also be examined to build your data and analytical capabilities along with your ability to converse with expert and non-expert stakeholders. Ultimately, you will learn how to elicit business requirements and recommend analytical solutions that seamlessly embed within business flows. The unique course design also provides the ability to link into other study opportunities for further career development including a Master of Business Administration or Master of Business Information Systems.

### Learning outcomes

- Implement optimised solutions to contemporary business challenges with evaluation of published literature and business analysis body of knowledge.
- Recommend strategic solutions using analytics to achieve best business practice within a global context.
- Apply data concepts and multiple information sources to transform business processes and managerial decisions.
- Harness digital technologies including Artificial Intelligence to analyse and communicate information relevant to business and social challenges.
- Transmit relevant and timely stakeholder insights and solutions using business analytics techniques.

### Graduate employment opportunities

On graduating from the Master of Business Analytics, potential employment opportunities include:

- Business Analyst
- Business Intelligence Analyst
- Data Analyst
- Financial Analyst
- ICT Manager
- Machine Learning Consultant
- Market Research Analyst
- Project Manager

## Course Overview

<b>Course Title</b>	Master of Business Analytics – MBAN22		
<b>Study Options – Domestic Australian students</b>	Face-to-face and Online delivery. Full-time and part-time options available.	<b>Study Options – International students</b>	This course is open to international students. CRICOS pending.
<b>Start Dates</b>	February, June, September For specific dates visit the <a href="#">website</a> .	<b>Course Length</b>	Full-time: 1.7 years / 5 Trimesters Part-time: 3.4 years / 10 Trimesters
<b>Payment Options - Domestic Australian students</b>	<p><b>Upfront payment</b> This means tuition fees will be invoiced each trimester and payment is required on or before the due date.</p> <p><b>FEE-HELP</b> FEE-HELP is Australian Government’s loan scheme for higher education degree courses. It can assist you in paying for all, or part of, your course fees. Repayments commence via the tax system once your income rises above a minimum threshold. Just like with any other debt, a FEE-HELP debt is a real debt that impacts your credit rating.</p>	<b>Payment Options – International students</b>	<p><b>Upfront payment</b> This means tuition fees will be invoiced each trimester and payment is required on or before the due date.</p>
<b>Course study requirements</b>	Each subject involves 30 hours of study per week, comprising 9 hours of facilitated study and 21 hours self-directed study.	<b>Assessment</b>	A range of assessment methods will be used as appropriate to the problems and challenges set in the subjects, and will be marked against a set rubric which is mapped to the learning outcomes. The assessments will only be achievable if the students engage with the required knowledge and skills development.
<b>Locations</b>	TUA Campuses (Sydney, Adelaide, Brisbane, Melbourne) and TUA Online Campus	<b>Delivered by</b>	Torrens University Australia
<b>Provider</b>	Torrens University Australia Ltd is registered as a self-accrediting Australian university by the Tertiary Education Quality and Standards Agency (TEQSA).	<b>CRICOS Course Code</b>	110668G
<b>Provider obligations</b>	Torrens University is responsible for all aspects of the student experience, including the quality of course delivery, in compliance with the <a href="#">Higher Education Standards 2015</a>	<b>Accrediting body</b>	Torrens University Australia Limited ABN 99 154 937 005, CRICOS Provider Code: 03389E. RTO No. 41343
<b>Course Fees</b>	For details, refer to the <a href="#">website</a> .	<b>Any other fees</b>	For details, refer to the <a href="#">website</a> .

## 2. Essential requirements for admission

The general admission criteria that apply to Torrens University Australia courses can be located by visiting the Torrens University Australia website - <https://www.torrens.edu.au/general-admission-information-for-torrens-university-australia-ltd>.

## 3. Admission Criteria

<b>Title of course of study</b>	Master of Business Analytics – MBAN22
<b>Applicants with higher education study</b>	Successful completion of a Bachelor’s degree (AQF 7) or above from an Australian University or an equivalent overseas higher education qualification.
<b>Applicants with vocational education and training (VET) study</b>	N/A
<b>Applicants with work and life experience</b>	<p>Applicants without formal qualifications are eligible to apply if they have five (5) years of analytics experience or equivalent professional business experience. Applications will be assessed on a case by case basis.</p> <p>Applicants must be able to demonstrate their ability to undertake study at the required level, through:</p> <ul style="list-style-type: none"> <li>• relevant work experience (documented e.g. CV), demonstrating a reasonable prospect of success; OR</li> <li>• formal, informal or non-formal study, completed or partially completed, demonstrating a reasonable prospect of success; OR</li> <li>• written submission to demonstrate reasonable prospect of success</li> </ul>
<b>English Language Proficiency</b> (applicable to international students, and in addition to academic or special entry requirements noted above)	Equivalent IELTS 6.5 (Academic) with no skills band less than 6.0

### Other admission options

*(For applicants who will be selected on a basis other than ATAR)*

<b>Special Entry</b>	N/A
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## 4. How to apply

Via direct application to the institution

- <https://apply.torrens.edu.au/>

## 5. Advanced standing/academic credit/recognition of prior learning (RPL)

You may be entitled to credit for prior learning, whether formal or informal. Formal learning can include previous study in higher education, vocational education, or adult and community education. Informal learning can include on the job learning or various kinds of work and life experience. Credit can reduce the amount of study needed to complete a degree.

Applicants admitted based on prior higher education study may be eligible for Advanced Standing in the form of credit and/or recognition of prior learning (RPL) under the Torrens University Australia [Credit Policy - \(https://www.torrens.edu.au/policies-and-forms\)](https://www.torrens.edu.au/policies-and-forms).

- Students with completed subjects may be eligible for specified credit and/or elective exemptions
- Students who have completed a qualification at AQF level 5 (diploma) or above may be eligible for block credit (where a block credit agreement exists)
- Students with a mix of formal study and informal and/or non-formal learning may be eligible for recognition of prior learning in addition to any credit approved.

Credit will not be applied automatically. Applicants must apply for credit and/or RPL as early as possible prior to each study period, with applications not accepted after week 2.

For further information about credit and recognition of prior learning please see <http://www.torrens.edu.au/apply-online/course-credits>.

## 6. Where to get further information

- Torrens University Australia (TUA) Website
  - <https://www.torrens.edu.au/>
- Universities Admissions Centre (UAC) Website
  - <http://www.uac.edu.au/>
- Quality Indicators for Learning and Teaching (QILT) Website
  - <https://www.qilt.edu.au/>

## 7. Additional Information

### Course Structure

The Master of Business Analytics course structure comprises 8 core subjects and 4 electives over level 600 (AQF 9).

## Course Rules

To qualify for the degree of Master of Business Analytics, the candidate must complete satisfactorily a program of study including 8 core subjects and 4 elective subjects (AQF 9). A combined total of 120 credit points is required.

Students may choose 4 elective subjects (AQF 9) from approved Torrens University postgraduate courses within the Business and Hospitality Vertical. Students may choose elective subjects from other postgraduate courses with prior approval from Program Director or delegate.

Students entering the course with a cognate Business degree with 2 years of work experience may seek RPL for the following foundation subjects:

- STA601 Statistics and Applied Analytics

## Subjects

SUBJECT DETAILS
SUBJECT TITLE, DESCRIPTOR
<p><b>MIS602 Data Modelling and Database Design (core)</b> This subject will introduce you to database fundamentals. You will learn about creating, storing, and managing data in an organisational context. You will explore relational database design and modelling techniques. Including how to resolve data anomalies and the process of data management. Key topic areas covered in this subject are normalisation, SQL and emerging trends in database technology.</p>
<p><b>STA601 Statistics and Applied Analytics (core)</b> You will be introduced to the role of statistical analysis in business decision making. You will learn quantitative techniques to evaluate financial and non-financial data. You will develop analytical and statistical skills through Excel data analysis. You will acquire technical and communication skills through interpreting statistical results, conducting hypothesis testing, and communicating statistical analysis through business reports.</p>
<p><b>BANASD600 Foundations in Business Analysis (core)</b> Want to deliver valuable analytics outcomes that positively address business and social requirements? Acquire foundational knowledge and competencies for undertaking business analysis and for progressing towards industry certification from the International Institute of Business Analysis (IIBA). Develop your ability to deliver valuable analytics outcomes, learning about life cycles of business analysis such as identifying business requirements, interpreting analytics solutions, and collaborating with experts and non-expert stakeholders.</p>
<p><b>BANASD601 Data Analytics in Business (core)</b> Examine how to integrate data into organisational practices to deliver valuable analytics outcomes. Learn how to manage the volume, variety, velocity and veracity of data, developing knowledge of data storage and processing infrastructure platforms for analysing data. Develop skills communicating with expert and non-expert stakeholders ensuring appropriate analytical technology is used to convert data into valuable insights and analytics outcomes. Contemporary trends for managing the scale of data generated, stored, and processed, and for future proofing data analytics strategies and outcomes, will also be analysed.</p>
<p><b>BANASD602 Visual Analytics and Storytelling (core)</b> Learn the art of storytelling: using data to develop insights that inform business decision making. Develop data representation and visualisation skills based on four theoretical pillars of effective stories: people, place, purpose and plot. You will be introduced to different strategies and tactics for using data and analytics to inform and persuade stakeholders and facilitate decision making. In evaluating different visualisation platforms and their benefits, experience using cutting-edge analysis tools will also be gained.</p>

<b>SUBJECT DETAILS</b>
<b>SUBJECT TITLE, DESCRIPTOR</b>
<p><b>BANASD603 Applied Optimisation in Business (core)</b>            Everything can be optimised, but should everything be optimised? Learn why and how to apply analytics to optimise business processes and operations. Guide algorithm selection and development by assessing optimisation through the lens of business problem formulation. Evaluate how business processes, technologies and people interact to optimise revenue, products, and supply chains in profitable and sustainable ways. Extend your knowledge of different analytics frameworks for optimisation scenarios such as forecasting and scheduling, learning about appropriate use cases for improving business productivity and social outcomes.</p>
<p><b>BANASD604 Artificial Intelligence and its responsible use in Business (core)</b>            Are businesses using artificial intelligence (AI) ethically? Explore these disruptive technologies (such as machine learning, deep learning, natural language processing, computer vision and others) and how businesses can apply them in responsible ways. Examine business analysis life cycles in relation to AI such as identifying business requirements, acquiring data sources, creating and deploying AI models, and assessing AI performance. Critique business use cases for AI models in terms of the ability to explain the data, the models, and the outcomes produced. You will also learn about responsible AI concepts such as fairness, privacy, explainability, governance, reliability and safety considerations of analytics outcomes.</p>
<p><b>EMP600 Engaging with Industry Capstone (core)</b>            Transition to a successful professional business career by applying your skills and disciplinary knowledge in real-world scenarios. Evaluate technical knowledge and soft skills obtained from the Master's program in a simulated real-world context. Learn about cutting-edge software, techniques and communication tools as you research, resolve and communicate solutions to complex business problems.</p> <p><b>Pre-requisite</b>            MIS602, STA601, BANASD600, BANASD601, BANASD602, BANASD603</p>
<p><b>Elective 1 (elective)</b></p> <p><b>Pre-requisite</b>            As per elective</p>
<p><b>Elective 2 (elective)</b></p> <p><b>Pre-requisite</b>            As per elective</p>
<p><b>Elective 3 (elective)</b></p> <p><b>Pre-requisite</b>            As per elective</p>
<p><b>Elective 4 (elective)</b></p> <p><b>Pre-requisite</b>            As per elective</p>

## Locations

The Master of Business Analytics can be studied at TUA Campuses (Sydney, Adelaide, Brisbane and Melbourne) and TUA Online Campus.

## Campus Facilities and Services

All campuses are designed to provide students with professional spaces in which to learn and work. They have been planned with student study needs in mind with well-equipped accessible learning spaces as well as student breakout areas for group work and spending time with friends.

## A positive student experience

Torrens University Australia values the importance of a positive student experience, and therefore has robust processes to resolve student complaints. The Student Complaints Policy, and associated procedures, can be accessed from the [website](https://www.torrens.edu.au/policies-and-forms) (<https://www.torrens.edu.au/policies-and-forms>).

## Paying for your qualification

We offer two payment options for this course:

- **Upfront payment**

If you want to complete your qualification debt-free you can choose to pay as you go. This means tuition fees will be invoiced each semester and payment is required on or before the due date using EFTPOS, credit card or direct transfer.

- **FEE-HELP**

FEE-HELP is Australian Government's loan scheme for higher education degree courses. It can assist you in paying for all, or part of, your course fees. Repayments commence via the tax system once your income rises above a minimum threshold (\$45, 881 in 2019-20). Just like with any other debt, a FEE-HELP debt is a real debt that impacts your credit rating.

Further information about FEE-HELP, including eligibility, is available at:

- FEE-HELP website:  
<http://studyassist.gov.au/sites/studyassist/help-payingmyfees/fee-help/pages/fee-help->
- FEE-HELP booklets:  
<http://studyassist.gov.au/sites/studyassist/helpfulresources/pages/publications>

## Austudy and Abstudy

Students enrolled in this course may be eligible for government assistance, such as [Austudy](#) or [Abstudy](#).