Master of Business Information Systems (MBIS20)

1. About the Master of Business Information Systems

The Master of Business Information Systems (MBIS) is a masters by coursework program, developed to embrace the demand for skilled individuals (already in the industry and aiming to enter) to work within in the ICT sector, specifically as Business Analysts in ICT. Business Analysis is on the medium to long-term skilled migration list.

The course structure for the Master of Business information Systems (MBIS) is influenced by the underlying principles that students need to focus on the area of Information System management and working as a professional in the Information Systems industry. The course is designed to develop foundational and advanced academic knowledge and skills in Information Systems that are then contextualised to the industry.

Information Systems professionals require business and technical skills as they are a conduit between the information technology specialists in business and the more business-oriented members of an organisation. The curriculum design of the MBIS is guided by an understanding of Information Systems, the requirements of business, project management, technical knowledge in databases and programming, data management and analytics. These concepts are underpinned by professional codes, ethical considerations and security. The course is designed to create work-ready graduates who will contribute to the ever-growing role of an information systems professional in the digital economy.

In addition, teamwork, sound and ethical decision making, and strategic planning are key features of the course. Graduates will apply an advanced body of specialised knowledge to the changing environments in which they work, or aspire to work, as leaders and managers at a broader level of competency from the GDIS. They will develop the cognitive, technical and creative skills to make effective ICT business decisions in a global context and develop the leadership and team-building skills necessary to manage information systems in dynamic 21st century organisations. Increased breadth will be developed through the inclusion of advanced project management skills, requirements management and specialised applications of microservices which impacts on contemporary businesses.

Graduates will also acquire research skills to equip them to interpret and evaluate theoretical propositions and business-related data and to maintain the currency of their MBIS culminates in a business capstone project where research skills are consolidated and applied to a strategic business problem. Students will be encouraged to complete an industry placement through the MIS611 Information Systems Capstone core subject to enhance their employability.

The course will be facilitated on-campus via small classes, via intensive teaching sessions and online units developed to suit the complex life circumstances of the student over the duration of the course.

The MBIS course and subject design and development are the result of a collaborative curriculum design process culminating in the production of an interactive online, hybrid and on-campus experience designed to meet the needs of the working professional and be immediately applicable to their day job and/or future career.
The Australian Computer Society (ACS) has many criteria for accreditation which is considered essential for this course. The main industry focus points which have been used to develop this course are as follows:

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- Course content to cover Core Body of Knowledge (CBOK). ACS-Core-Body-of-Knowledge-for-ICT-Professionals-CBOK.pdf
- Includes a capstone unit (preferably a final-year team-based project for a real client).
- Teach research principles and methods applicable to the discipline and its professional practice.
- Information and Communication Technology (ICT) Role Specific Knowledge at SFIA level 3 or above (6 months of advanced level studies) for at least one ICT skill.
- There will be a minimum of 12 subjects focused on the development of the ICT outcomes and the body of ICT knowledge required and defined for the program.
- Graduates will have in-depth understanding (ie. Bloom level 4) of all essential core CBoK topics including Project Management, and Cyber Security.
- The course will have at least four advanced ICT subjects including no more than 2 oriented towards the application of ICT skills and knowledge, for example in a capstone project.
- Graduates will understand the professional role and are prepared for the realities of professional practice. This criterion aligns with graduate standards established by the Seoul Accord.

The course objective is to develop graduates who demonstrate a high level of technical competence and strong ability to interpret information to solve workplace problems. Graduates need to be able to work between highly technical teams and operational/managerial teams in the organisation to translate needs and possible solutions. Graduates develop skills to determine what ICT solutions are possible versus which are realistic in the workplace, they will acquire skills in research and problem-solving to use to maintain and develop their professional disciplinary currency once in the workplace. Graduates are prepared to engage in ongoing self-reflection, self-directed learning and professional development activities. Their disciplinary and academic knowledge base will also enable them to undertake Master level study.

Graduate employment opportunities

Graduates of the MBIS can expect to gain ICT business and management skills. Roles may include:
- Chief information officer
- ICT business analyst
- database administrator/manager
- information and communication technology (ICT) architect
- ICT consultant
- ICT project manager
- systems administrator
- systems analyst

Course Overview

Course Title	Master of Business Information Systems (MBIS20)		
Study Options – Domestic Australian students	Face to Face delivery Online delivery Full-time, part-time and accelerated options available.	Study Options – International students	Face to Face delivery Online delivery Full-time, part-time and accelerated options available.

Start Dates	February, June and September. For specific dates visit the website.	**Course Length**	Full-time: 2 years Part-time: 4 years
Payment Options - Domestic Australian students	**Upfront payment** This means tuition fees will be invoiced each semester and payment is required on or before the due date. **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. Just like with any other debt, a FEE-HELP debt is a real debt that impacts your credit rating.	**Payment Options – International students**	**Upfront payment** This means tuition fees will be invoiced each semester and payment is required on or before the due date.
Course study requirements	Each subject involves 10 hours of study per week, comprising 3 hours of facilitated study and 7 hours self-directed study.	**Assessment**	Case study analyses, group assignments, presentations, quizzes, reports and reflective essays.
Locations	TUA Campuses – Adelaide, Brisbane, Sydney and Melbourne Online	**Delivered by**	Torrens University Australia
Provider	Torrens University Australia Ltd is registered as a self-accrediting Australian university by the Tertiary Education Quality and Standards Agency (TEQSA).	**CRICOS Course Code**	098257J
Provider obligations	Torrens University is responsible for all aspects of the student experience, including the quality of course delivery, in compliance with the *Higher Education Standards 2015*	**Accrediting body**	Torrens University Australia Limited ABN 99 154 937 005, CRICOS Provider Code: 03389E. RTO No. 41343
Course Fees	For details, refer to the website.	**Any other fees**	For details, refer to the website.

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

Title of course of study	Master of Business Information Systems
Applicants with higher education study	Undergraduate degree from Australian university or equivalent
Applicants with vocational education and training (VET) study	N/A
Applicants with work and life experience	Applicants without formal qualifications are eligible to apply if they have seven (7) years of professional, administrative or managerial work experience. Applications will be assessed on a case by case basis.
English Language Proficiency (applicable to international students, and in addition to academic or special entry requirements noted above)	IELTS 6.5 with no band less than 6.0
Applicants with recent secondary education (within the past two years) with ATAR or equivalent* (for applicants who will be selected wholly or partly on the basis of ATAR)	N/A

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).

- 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 MBIS course structure comprises 16 subjects (160 credit points). The course of study is made up of:
• Core subjects: There are 12 core subjects (120 credit points) found within the Master award
• Elective subjects: There are four electives (40 credit points)

Course Rules
To qualify for the award of Master of Business Information Systems, the candidate must satisfactorily complete a course of study comprising 12 core subjects (120 credit points) and 4 elective subjects (40 credit points). A combined total of 160 credit points is required.

Electives can be taken from the approved table below or any postgraduate subjects (AQF 8 and/or AQF 9) with prior approval from the Program Director.

Subjects

SUBJECT DETAILS
SUBJECT CODE, SUBJECT TITLE, DESCRIPTOR
PROJ6000 Principles of Project Management
This subject introduces you to the practice of contemporary project management and its relevance in industry. You will be introduced to fundamental concepts of project management, project definition and project delivery methods. Contemporary project management methodologies will be examined in the context of industry best practice. An overview of industry standard tools and techniques required to manage projects successfully throughout a project life cycle will be provided. This includes industry terminology and the rationale behind the commencement of a project.
MIS500 Foundations of Information Systems
This subject introduces students to the key concepts and technologies of information systems that drive change and support organisations to achieve strategic goals. This includes data and information management, application of business information systems, disruptive technologies and issues such as ethics, privacy and cyber security. This subject will prepare students to better understand the technologies that are disrupting and transforming society both now and into the future.
MIS501 Principles of Programming
This subject introduces you to coding for business as a tool for developing systems and addressing business needs. You will learn Unified Modelling Language (UML) and Integrated Development Environment (IDE) to design, create, compile, test and run programs, applying object-oriented concepts to solve organisational problems. This subject will introduce you to an object-oriented paradigm and will equip you with the skills to assess and apply requirements in business environments.
MIS602 Data Modelling and Database Design
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.
MIS603 Microservices Architecture
This subject introduces students to microservices architecture within the context of cloud computing models. The emergence of these techniques of building applications is directly related to innovations in the areas of cloud computing and platforms. In this subject, the focus will be on the evolution from more traditional

approaches to microservices architecture. Core concepts related to the principles and practices of microservices will be reviewed.

MIS604 Requirements Engineering

This subject introduces you to activities, techniques, and methodologies a business analyst uses to elicit, analyse, model, document and maintain requirements throughout a project. You will learn how to develop techniques and use tools for different methods to identify and model good requirements. This will support the management of change and communication to relevant stakeholders.   This subject will contribute to your understanding and capability in developing, documenting and managing requirements for software development in projects.

MIS605 Systems Analysis and Design

This subject introduces students to activities, techniques, and methodologies a systems analyst uses to design information systems that, when built, enhance the organisation's ability to meet its business goals via available technology. These include define requirements for system, model high-level behaviours of system, and design blueprint, that is, planning and implementation and will move through object-oriented approaches to analysis and design, the transformation of user requirements to system design. User empathy is promoted in this subject, using the unified modelling language (UML).

MIS611 Information Systems Capstone

You will engage with an authentic industry learning experience that allows you to draw on the knowledge and skills you have developed throughout the MBIS. You will actively work within a project team to communicate and deliver a prototype solution for a client. A work integrated learning experience is included in which the knowledge and skills from the MBIS will be applied and assessed in a real or simulated workplace context, where feedback from key organisational stakeholders is integral to the experience. You will undertake and be assessed on structured activities that allow for learning, application and demonstration of your professional practice while engaging with partner organisations.

MIS607 Cybersecurity

Information is a vital organisational asset. Information systems store, process and exchange information, and most economic sectors are dependent on electronic and automated systems. Interconnectivity is important for many organisations, but this also increases the exposure to adverse events, necessitating the need for thorough information security management. This subject builds upon fundamental information security concepts, including the management of information systems that affect organisational information security: identity management, authentication, access control, monitoring, risk management, incident response and disaster recovery. Since cybersecurity is everyone's responsibility, having the basic knowledge to prevent attacks, mitigate risk, and get up to speed with best practice cyber governance is an essential ingredient to succeed in today's digital world.

MIS608 Agile Project Management

Progressing from traditional project management frameworks this subject focuses on Agile project management, agile project management methodology, the principles of agile, and agile techniques. This subject will be based on a foundation of the 4 core values and 12 guiding principles of agile as laid out by the agile manifesto. Students will develop an understanding of agile concepts, tools and techniques: Scrum and Kanban, Roadmap planning, Program increments, Sprints and daily scrums and the agile roles within teams. Some of the leading agile frameworks will be discussed so that students have an understanding of some of the different philosophies, which support the agile continuous delivery pipeline. Points of origin in Lean practice and the relationship between agile and DevOps will also be covered to help students orient themselves in the broader emerging landscape of projects and software development landscape.

MIS609 Data Management and Analytics

The subject introduces you to the core concepts, processes, and tools you need for a data analytics role or even to strengthen your current role as a data-driven decision maker. It will equip you with an understanding of the data ecosystem and the fundamentals of data analysis, such as data gathering, cleansing, analysis, and

data visualization. You will apply advanced analytics and data management techniques to develop a data solution.

This subject presents organisational data management, focusing on data analysis, data visualisation and the tools used in industry. Deriving insights from data and communicating findings has become an increasingly important part of virtually every profession. This subject prepares you for this data-driven transformation by teaching you the core principles of data analysis and visualization and by giving you the tools and hands-on exercises to communicate the results of your data discoveries effectively.

MIS610 Advanced Professional Practice

Advanced Professional Practice provides an authentic industry led learning experience in preparation for careers in the Information Systems (IS) industry in a global context. It will cover topics such as ethics, culture, professional practice, legalities and compliance including General Data Protection Regulation (GDPR) and governance. The final case-study project enables students to demonstrate their ability to think strategically and practice the skills and knowledge acquired throughout the subject.

4 elective subjects (40 credit points) can be taken from the approved table below or any postgraduate subjects (AQF 8 and/or AQF 9) with prior approval from the Program Director.

SDM404 Software Development Management

BDA601 Big Data & Analytics

ISY503 Intelligent Systems

DID602A User Experience Design

HCD402 Human Centered Design

SBD403 Secure by Design

DSGN6028 Design Futures

CCF501 Cloud Computing Fundamentals.

FIN600 Financial Management

MGT600 Management, People and Teams

MGT601 Dynamic Leadership

MGT602 Business Decision Analytics

MGT603 Systems Thinking

MGT604 Strategic Management

MGT606 Employer-based Project

MGT613 Corporate Sustainability

PROJ6001 Integrated Project Process Management

PROJ6002 Project Planning and Budgeting

PROJ6004 Contracts and Procurement

PROJ6005 Sustainability in Project, Portfolio and Program Management

TED403 Technology and Education

Locations

The Master of Business Information Systems can be studied fully online or at the below Torrens University Campuses:

- Queensland (Brisbane)
- New South Wales (Sydney)

- Victoria (Melbourne)
- South Australia (Adelaide)

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.

Facilities and Services include:
- The Customer Service Hub – our friendly and experienced staff can give help and advice about courses, your enrolment and campus life, including all services and activities on campus.
- Counsellors are available for students to consult with on a range of personal issues
- Student wireless access throughout the Campus
- Student break-out and relaxed study spaces for group work
- Student lounge areas – most with microwaves, kitchenette facilities and vending machines
- The Learning Hub, home to the Learning Support Team, encompasses Learning Skills Advisors, Learning Technology Advisors, and Library & Learning Skills Officers. It provides an integrated, holistic support program for students throughout the study lifecycle within a library/collaborative study environment.

The service includes:
- Support and workshops with highly qualified staff in the areas of Academic skills, Library skills, and Technology skills, both on campus and online.
- Physical and digital resources relevant to studies, such as books, journals, multimedia, databases
- Self-check kiosks for library loans and print and copy facilities

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).

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. 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/helppayingmyfees/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.

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