MASTER OF BUSINESS INFORMATION SYSTEMS

Lincoln Institute of Higher Education (LIHE)
Trading as Lincoln Education Australia (LEA)
website: Home | Lincoln Education Australia (lincolnau.nsw.edu.au)
email: info@lincolnau.nsw.edu.au
ABN 53 638 284 081 | TEQSA Provider ID: PRV14352
CRICOS Provider Code: 04097J | CRICOS Course Code: 112284G

A degree in Business Information Systems will help you become an entrepreneurial job creator, rather than a job seeker.

Studying business information systems will help you gain the skills needed to thrive in today's modern digital world

AQF Level:	*AQF 9*
Typical Duration:	*2 years full time*
Delivery Mode:	*On Campus: Face-to Face*
Units of Study:	*16*
CRICOS Course Code:	*112284G*

The Master of Business Information Systems (MBIS) aims to meet emerging challenges for business and technology in a global economy. Course offerings focus on the strategic application of complex information, communication and computing infrastructure of business and enterprises. Students gain core knowledge in areas such as information systems management, business and data communication, supply chain management, E-commerce and project management with a specialised focus on business intelligence or cybersecurity analytics. Students will be job-ready entrepreneurs, capable of meeting contemporary socio-environmental challenges and creating jobs for a sustainable global society.

Lincoln Education Australia offers high quality teaching and learning with clear purpose, outcomes driven curriculum planning, high expectations and an enhanced opportunity for students to demonstrate performance.

Learning outcomes will be assessed using a range of authentic assessment methods which may include, but are not limited to: examinations, written assignments/ essays, projects, in-class quizzes/tests, tutorial and laboratory tasks, group work, individual and group presentations, reflective papers, participation, simulations and discussion forum contributions

Core Employability Skills

As a graduate of this course, you will be prepared for work in a complex modern day digital environment. The course helps you to develop core attributes such as creative and critical and thinking, effective communication and collaboration, entrepreneurship, social responsibility, cultural awareness, ethical competence and leadership skills that will allow you to engage across a variety of industries.

Career Opportunities

The Master of Business Information Systems is a postgraduate degree that provides graduates with the specialised knowledge and technical expertise required for senior roles in information systems, systems design, business analytics, planning and management. You will be well prepared for a range of career pathways, such as:

- IT Business Systems Developer
- IT Systems Analyst
- E-Commerce Consultant

- Information Systems Manager
- IT Business Development Manager
- IT Quality Assurance Analyst
- IT Business Engagement Manager,
- Technical Business Analyst,
- Business Systems Analyst
- Systems Analyst
- Business Intelligence Manager
- Cyber Security Analyst

Industry-Based Real World Projects

Lincoln Education Australia sources industry-based real world projects as opportunities to help students understand modern-day practices and gain authentic experiences in the area of their studies. Guest lecturers and mentors from a variety of business sectors will provide students with the critical opportunity to make first-hand connections between classroom theory and workplace practice.

International Experiences

Our mission and vision are universal. We seek to provide a global educational experience, support character-building education and offer high-quality advanced learning. To this end, we have established a strong academic and corporate community in Australia supporting our institutes across the globe. We seek to provide world-class educational services that are affordable, oriented towards community service and meet local requirements.

Prerequisites for Master's Degree

- Australian Bachelor's degree or overseas equivalent

English Language Requirements

The following English language requirements apply for international students or local applicants with international qualifications:

- ELTS: An overall IELTS band score of 6.0 with at least 5.5 in writing and speaking; or
- TOEFL (Internet-based): An overall score 65 with a minimum of 21 in writing and at least 18 in speaking; or
- CAE Advanced (CAE) or CAE Proficiency (CPE): An overall score of 169 with a minimum of 154 in writing and speaking; or
- PTE Academic: An overall writing communicative score of 50 with a minimum of 36 in writing and speaking.

Applicants who do not meet English proficiency requirements may be made a conditional offer pending successful completion of an approved intensive English language course and meeting the required standard prior to commencement.

Recognition of Prior Learning

Exemptions may be awarded to students who have completed previous studies with an approved education provider that the Institute has a current and valid Articulation Agreement with.

Scholarships

Lincoln Education Australia, in partnership with a number of third-party organisations, offers a number of scholarships and bursaries for a variety of needs to ease the financial pressures of study. Eligibility criteria are based on both merit and circumstance. Visit the LEA website to view and search all available scholarship options.

Course Map

YEAR 1 Semester 1	BIS7101 Business Information Analysis	BIS7102 Database Management System	BIS7103 Business Data Communication and Networking	BIS7104 Entrepreneurship and Management
YEAR 1 Semester 2	BIS7105 E-Business models	BIS7106 Web Design and Development	BIS7107 Operations Management	BIS7108 Design Thinking
YEAR 2 Semester 1	BIS7201 Cloud Computing for Business	BIS7202 Cyber Law in Practice	BIS7203 IS Project Management	Elective 1
YEAR 2 Semester 2	BIS7204 Enterprise Information System	BIS7205 Data Governance and Ethics	Elective 2	BIS7211 Capstone Project
	Elective Group 1: Business Intelligence YEAR 2 Semester 1		**Elective Group 2: Cyber Security Analytics YEAR 2 Semester 2**	
	BIS7221 Big Data Analytics		BIS7231 Information Security Management	
	BIS7222 Data Mining for Business Analytics		BIS7232 Cyber Forensics	

Subject Descriptions

BIS7101 Business Information Analysis

This subject provides advanced theoretical and conceptual knowledge of the strategies, phases, components and processes employed by a business information analyst to develop a project, from conducting an enterprise analysis through to implementing solutions. Students will be provided with specialised knowledge and the opportunity to apply a range of critical skills required to identify complex business problems, critically analyse and implement appropriate methods for creative, innovative and ethical solutions, manage projects and determine the parties that should be involved and effectively communicate technical information to specialist and non-specialist audiences.

BIS7102 Database Management Systems

This subject explores in depth the underpinning theory, concepts, application and management of relational and non-relational database management systems. It will cover the past, present and future of database systems and database research and provide specialised knowledge of the technologies used in implementing database management systems. Large data resources are critical to the functioning of almost every significant modern computer application and expert knowledge of how to manage them is crucial to the IS/IT industry. Students will gain expertise in relational and non-relational data storage, gaining hands on experience and knowledge in entity relationships, database design, normalisation, indexing, the ETL process, data pipelines, modern databases and data lakes. By the conclusion of this subject, students will gain significant knowledge for selecting, building and utilising the correct DBMS that is scalable and highly

available for their desired application. Students will learn research skills through the extensive reading required for this subject.

BIS7103 Business Data Communications and Networking

Business Data Communications and Networking provides students with specialised knowledge of data communications, the OSI model and techniques, applications and control of modern data communications networks. Students will gain advanced knowledge of network models, digital transmission, multiplexing, circuit and packet switching. Students will be provided with opportunities to synthesise complex information and apply expert skills and judgement in order to design and manage data networks.

BIS7104 Entrepreneurship and Management

This subject integrates key theoretical and conceptual knowledge of entrepreneurship and management with a practical guide for the systematic application of an entrepreneurial mindset and skills for launching a successful business venture. Students will identify and create marketable business opportunities and determine methods for successfully attracting investors. Further, the subject will focus on the social, professional, ethical and legal frameworks and perspectives in entrepreneurship and management. Students will learn how to conduct a feasibility analysis, develop and defend a business plan, generate new ideas to create unique and potentially profitable solutions to modern-day business problems, identify, assess and manage risk, evaluate challenges for growth and gain a range of advanced skills required to start and build a business in today's complex world. Students will benefit from a guest lecture from a practicing entrepreneur.

BIS7105 E-Business Models

This subject provides specialised theoretical and technical knowledge of e-business, e-business models and its critical issues and challenges for contemporary businesses. It explores various strategic sources of value in e-business and integrates knowledge of e-business with the related information technology, e-business models, digital business model innovation, customer relationship management, customer experience, supply chain management and their impact on the implementation and management of global businesses. Students will be provided with the opportunity to independently conduct a critical analysis the strategic, operational and technical issues related to e-business requirements, models and practices provide creative, sustainable solutions for responsible e-businesses.

BIS7106 Web Design and Development

This subject examines advanced principles and technologies related to web design and development, including the basics of XML and JSON. Students will gain a deep understanding of the appropriate methods and techniques for developing simple and complex web sites. User interfaces and accessibility Standards will be introduced. Using current standard web page mark-up languages and stylesheets such as HTML, CSS, JavaScript and PHP, students will be provided with opportunities to apply expertise gained to create and maintain novel static web sites.

BIS7107 Operations Management

This subject provides advanced knowledge and understanding of the concepts, principles, problems, and practices of operations management. Critical emphasis is placed on managerial processes for effective operations in both goods-producing and service-rendering organisations. This subject uses an integrated systems model approach, which includes areas such as operations strategy, process design, capacity planning, facilities location and design, forecasting, production scheduling, inventory control, quality assurance, and project management.

BIS7108 Design Thinking

This subject advances students' theoretical and conceptual knowledge and further develops their technical skills and expertise in Information Systems and Technology. In this subject student, under supervision of a member of the academic staff, will independently undertake a current and relevant Information Systems project that involves the development of an applied project based on a business issue that students will need to discover. Students in this subject will use design thinking and agile methodologies to empathise, define, ideate, prototype, test and work towards the further development their solution. Students will also be required to critically review and evaluate their peer's projects from a technical, social, business and management standpoint.

BIS7201 Cloud Computing for Business

This subject presents a top-down view of cloud computing, from applications and administration to programming and infrastructure. The subject focuses on the large-scale distributed systems that form the cloud infrastructure. The topics include an overview of cloud computing, cloud systems, processing in the cloud, distributed storage systems, virtualisation, security in the cloud, and multicore operating systems. A guest lecturer will discuss the advantages and disadvantages of implementing cloud computing in an organisation.

BIS7202 Cyber Law in Practice

This subject provides specialised knowledge of criminology and cybercrime through a critical exploration of the legal and political challenges stemming from rapidly evolving cyber security threats. This subject aims to contextualise advanced and integrated knowledge on cyber security threats and responses to these threats within the frameworks of national and international law. The limitations of current laws will be examined and the need for further policy evolution identified and discussed within the context of real-world impact of various legal and policy options. This subject will provide in-depth knowledge and understanding of international and domestic legislative frameworks that govern malicious and defensive actions in cyberspace, including laws related to cybercrime, cyber espionage, and cyber war.

BIS7203 IS Project Management

This IS Project Management subject integrates theory, concepts, frameworks and models and methodologies for technology project management. Students will develop in-depth understanding and applied skills from a management perspective with a focus on agile project management methodologies. Agile models are used as a tool for running IS/IT projects. Students will develop skills and expertise to execute a project plan, managing major cornerstone tasks and employing critical project management tools and methods. The subject integrates advanced knowledge in technology management techniques and behavioural management skills to systematically manage projects in business and information systems. Current issues and trends in IS/IT project management are discussed, and project management software skills are developed and practised throughout the subject.

BIS7204 Enterprise Information Systems

This subject provides students with advanced and integrated knowledge of the roles that Enterprise Resource Planning (ERP) Systems play in an organisation and the requisite skills and expertise to perform the challenging task of managing the Information Systems (IS) function. Students will develop specialised knowledge of ERPs in businesses seeking to use technology to maintain their competitive edge in the marketplace.

BIS7205 Data Governance and Ethics

This subject introduces students to key concepts, processes, governance frameworks and technologies related to data governance and ethics. Students will gain insight for the design and implementation of a data governance program. They will critically examine a range of regulatory frameworks and methodologies associated with the capture, storage, processing and dissemination of data. Students will gain advanced knowledge and understanding of the existing ethical frameworks in select sectors in Australia. They will also be able to analyse the trade-off between personal privacy and data transparency and apply this to critically evaluate roles and responsibilities pertaining to data security, protecting critical and sensitive information, privacy and data protection. Students will also investigate legal, ethical and professional accountabilities and responsibilities along with related implications for policy and practice.

BIS7211 Capstone Project

This subject consolidates students' critical theoretical and conceptual knowledge and further develops and integrates their technical skills and expertise in Information Systems and Technology. Under academic supervision, students will collaborate in small groups to initiate and develop an applied Business Information Systems project based on a current and relevant business issue and recommend solutions. Students will undertake a critical review of relevant literature, determine the appropriate research methods for designing and planning an IS based project and create a comprehensive project proposal. Students will be encouraged and supported in analysing, designing, prototyping, synthesising, troubleshooting, and testing systems to address an identified problem. Students will also be required to critically review and evaluate their peer's projects from a technical, social, business and management standpoint.

And 2 subjects from an Elective Group

Elective Group 1: Business Intelligence

BIS7221 Big Data Analytics

This subject emphasises the significance and use of big data processing frameworks. Students will gain specialised knowledge and understanding about the storage solutions in Big Data and their critical features such as, speed of reads and writes and the ability to scale to extreme volumes. Students will develop expertise and skills that enable them to initiate and design highly scalable systems that can accept, store, and analyse large volumes of unstructured data in batch mode and/or real time.

BIS7222 Data Mining for Business Analytics

This subject integrates specialised knowledge in data analytics, data mining, and data-driven decision-making. Students will be provided with technical and practical knowledge about inferred patterns, structures and relationships in data and their validation as a support for business decisions. The subject enables the students to explore and critically analyse large quantities of data by automatic and semi-automatic means. They will extract useful insights from data mining and business analytics that can be utilised for data-driven decision-making for competitive advantage.

Elective Group 2: Cyber Security Analytics

BIS7231 Information Security Management

Information Security Management applies to information systems analysis, design, and operations including managing information assets and the security infrastructure. This subject provides specialised knowledge of managing security-related risk with an in-depth focus on the processes of developing, implementing, and maintaining organisational policies, standards, procedures and guidelines. The subject provides students with knowledge and skills to identify and critically evaluate information assets, threats, and vulnerabilities. In this subject, students will develop expertise to undertake quantitative and qualitative cyber security risk analysis, risk mitigation, residual risk, and risk treatment processes and practices.

BIS7232 Cyber Forensics

This subject provides students with in-depth theoretical, conceptual and practical knowledge of digital forensics and cybercrime. Students will develop integrated knowledge of the tools and techniques of forensic investigation, critical analysis of data for purposes of identifying evidence along with technical and legislative aspects related to cybercrime. Students will apply digital forensics methodologies to conduct investigations into cybercrime, responsibly manage digital crime-scene evidence and artifacts and critically evaluate the impact of cybercrime on business in local and global contexts.

Learning resources: All the software requirements for the MBIS course will be provided.

Further Information

Lincoln Education Australia

Home | Lincoln Education Australia (lincolnau.nsw.edu.au)

Fees and Charges

Fees and Charges | Lincoln Education Australia (lincolnau.nsw.edu.au)

Student Handbook information

Student Handbook.pdf (lincolnau.nsw.edu.au)

Future Student Enquiries

Australian citizens, permanent residents, New Zealand citizens and International Students
International | Lincoln Education Australia (lincolnau.nsw.edu.au)

Australia provides rigorous protection for international students through the Education Services for Overseas Students Act 2000 (ESOS Act) and related legislation, (including the National Code of Practice 2018) which protects and enhances Australia's reputation for quality education, provides tuition protection and supports the integrity of the student visa program.

The Australian Government is committed to high quality educational experiences for international students and has produced a fact sheet containing important information about their rights and responsibilities while studying in Australia. This fact sheet provides information about:

- Choosing and enrolling in a course of study
- Support services available in Australia

- Rights and responsibilities of students on a student visa
- Working in Australia
- Making complaints and seeking help.

The links for the following four websites have been provided:

Education Services for Overseas Students Act 2000 - https://www.legislation.gov.au/Details/C2022C00066

Education Services for Overseas Students Regulations 2001 - https://www.legislation.gov.au/Details/F2016C00681

National Code of Practice for Providers of Education and Training to Overseas Students 2018 - https://www.legislation.gov.au/Details/F2017L01182/Html/Text#_Toc487026957

Australian Government Fact Sheet: "International Education - Ensuring Quality and Protecting Students - https://internationaleducation.gov.au/Regulatory-Information/Documents/esosstudentfactsheetv4%20-%20Final%20clean%20copy.pdf

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