

## 864AL Master of Information Systems

<b>Year and Campus:</b>	2016
<b>CRICOS Code:</b>	055847J
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Level:</b>	Graduate/Postgraduate
<b>Duration &amp; Credit Points:</b>	200 credit points taken over 24 months
<b>Coordinator:</b>	Dr Sean Maynard
<b>Contact:</b>	<p><b>Melbourne School of Engineering</b></p> <p>Currently enrolled students:</p> <ul style="list-style-type: none"> <li># General information: <a href="https://ask.unimelb.edu.au">https://ask.unimelb.edu.au</a> (<a href="https://ask.unimelb.edu.au">https://ask.unimelb.edu.au</a>)</li> <li># Email: <a href="mailto:enquiries-STEM@unimelb.edu.au">enquiries-STEM@unimelb.edu.au</a> (<a href="mailto:enquiries-STEM@unimelb.edu.au">mailto:enquiries-STEM@unimelb.edu.au</a>)</li> </ul> <p>Future students:</p> <ul style="list-style-type: none"> <li># Further information: <b>Course webpage</b> (<a href="http://www.msi.unimelb.edu.au/study/graduate/master-of-information-systems/">http://www.msi.unimelb.edu.au/study/graduate/master-of-information-systems/</a>)</li> <li># Email: <a href="mailto:13MELB@unimelb.edu.au">13MELB@unimelb.edu.au</a> (<a href="mailto:13MELB@unimelb.edu.au">mailto:13MELB@unimelb.edu.au</a>)</li> </ul>
<b>Course Overview:</b>	<p><b>THERE IS NO FURTHER ENTRY INTO THIS COURSE.</b></p> <p><b>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2014.</b></p> <p>The Master of Information Systems (MIS) is a 200 credit point coursework degree for those interested in professional or research careers in IT management and digital business: professionals supporting, managing and changing business processes through information and communications technology (ICT) and information systems.</p> <p>Students choose between one of two specialisations:</p> <p>The <b>MIS Professional Specialisation</b> has advanced coursework for careers in IT management and digital business.</p> <p>The <b>MIS Research Specialisation</b> combines coursework in IT management and digital business with a strong grounding for undertaking research in that context.</p>
<b>Learning Outcomes:</b>	<p>A graduate of the MIS should:</p> <ol style="list-style-type: none"> <li>1 Have developed a sound knowledge and understanding of the discipline of Information Systems</li> <li>2 Have acquired skills that will enable them to manage and change business processes through information and communications technology (ICT) and information systems.</li> <li>3 Have a broad business and real world perspective together with experience in applying business communication, interpersonal, and team skills to real situations.</li> <li>4 Have developed and demonstrated critical thinking and analytical skills to apply information system theory to ICT management practice</li> <li>5 Have gained professional practice knowledge within the real world of IT Management through the industry links of staff teaching in the program</li> <li>6 Have developed skills and had experience in communication of ICT issues to justify, critically evaluate and explain real-world situations leading to IT management decisions</li> <li>7 Be able to demonstrate an understanding of professional codes of conduct and ethical standards</li> <li>8 Have advanced knowledge of research principles and methods in Information Systems</li> </ol>
<b>Course Structure &amp; Available Subjects:</b>	<p>The Master of Information Systems 200 credit point program has two specialisations: <b>professional</b> and <b>research</b>. Students take ONE specialisation.</p> <p><b>MIS Professional Specialisation:</b></p> <p>All students must complete 200 credit points comprising:</p>

- # **Foundation Core subjects (50 points).** Students normally complete four foundation core subjects in the areas of business and information systems to complement their first degree. The specific subjects selected will be determined after consultation with the MIS Coordinator taking into account the academic background of the student.
- # **Lower Core subjects (50 points).** Four Lower Core subjects must be completed. They have no prerequisites and are normally taken in parallel with the selected foundation subjects in the first year of full-time study.
- # **Upper Core subjects (50 points).** Four Upper Core must be completed. Each has a prerequisite of 50 points of study (for students in the 200 point 2 year MIS) and the four are normally taken in parallel with elective subjects in a student's second year of full-time study. Two of the Upper Core subjects (25 points, ISYS90032 Emerging Technologies and Issues, and ISYS90051 Impact of Digitisation) form the capstone of the MIS requiring students to engage in scholarly work within the discipline.
- # **Discipline Elective subjects (50 points).** Four specific subjects will be selected taking into account the future career direction of the student.

### MIS Research Specialisation

All students must complete 200 credit points comprising:

- # **Foundation Core subjects (37.5 points).** Students normally complete three foundation core subjects in the areas of information systems and research.
- # **Lower Core subjects (25 points).** Four Lower Core subjects must be completed. They have no prerequisites and, in a student's first year of full-time study, are normally taken in parallel with the foundation subjects selected.
- # **Upper Core subjects (50 points).** Four Upper Core subjects must be completed. Each has a prerequisite of 50 points of study (for students in the 200-point 2-year MIS) and the four are normally taken in parallel with elective subjects in a student's second year of full-time study in the course. Two of the Upper Core subjects (25 points, ISYS90032 Emerging Technologies and Issues, and ISYS90051 Impact of Digitisation) form the capstone of the MIS requiring students to engage in scholarly work within the discipline.
- # **Discipline Elective subjects (37.5 points).** Three specific subjects will be selected taking into account the future career direction of the student. These electives have prerequisites of 50 points of study (for students in the 200 point 2 year MIS).
- # **Research Project (50 points).** This is typically taken in the form of two subjects: 12.5 points in one semester followed by 37.5 points in the following semester. The specific sequence of subjects will be determined in consultation with the MIS Coordinator and the student's supervisor.

#### Subject Options:

### MIS PROFESSIONAL SPECIALISATION

#### Foundation Core

The specific subjects selected will be determined by the MIS Coordinator taking into account the academic background of the student.

50 points

Subject	Study Period Commencement:	Credit Points:
COMP90041 Programming and Software Development	Semester 1, Semester 2	12.50
INFO90002 Database Systems & Information Modelling	Semester 1, Semester 2	12.50
ISYS90026 Fundamentals of Information Systems	Semester 1	12.50
ACCT90004 Accounting for Decision Making	Summer Term, Semester 1, Semester 2	12.50
BISY90008 Information Processes & Control	Not offered 2016	12.50
ECON90015 Managerial Economics	Semester 1, Semester 2	12.50
ISYS90081 Organisational Processes	Semester 1, Semester 2	12.50
GEOM90042 Spatial Information Programming	Semester 1	12.50
MGMT90140 Management Competencies	January, Semester 1, Semester 2	12.50

**Lower Core**

50 points

Subject	Study Period Commencement:	Credit Points:
ISYS90048 Managing ICT Infrastructure	March, Semester 2	12.50
ISYS90049 Process Analysis Modelling and Design	Semester 1, Semester 2	12.50
ISYS90045 Professional IS Consulting	Semester 1, Semester 2	12.50
ISYS90050 IT Project and Change Management	June, Semester 1, Semester 2	12.50

**Upper Core**

50 points

Subject	Study Period Commencement:	Credit Points:
ISYS90032 Emerging Technologies and Issues	Semester 1, Semester 2	12.50
ISYS90043 Enterprise Applications & Architectures	Semester 1, Semester 2	12.50
ISYS90038 IS Strategy and Governance	March, Semester 2	12.50
ISYS90051 Impact of Digitisation	Semester 1, Semester 2	12.50

**Discipline Elective**

50 points

Students would normally select four subjects from the list of electives (see MIS DISCIPLINE ELECTIVES below). Students may also study electives from elsewhere in the University and if interested they should discuss this with the MIS coordinator.

**MIS RESEARCH SPECIALISATION****Foundation Core**

37.5 points

Subject	Study Period Commencement:	Credit Points:
ISYS90026 Fundamentals of Information Systems	Semester 1	12.50
ISYS90031 Research Methods in Information Systems	Semester 1	12.50

PLUS ONE of:

Subject	Study Period Commencement:	Credit Points:
MAST90070 Introduction to Quantitative Methods	Summer Term	12.50
EDUC90716 Introduction to Qualitative Methods	January	12.50
EDUC90717 Mixed Methods Research & Evaluation	Term 3	12.5

**Note:** The specific subject will be selected by the MIS Coordinator in conjunction with the student's supervisor.

**Lower Core**

25 points

Subject	Study Period Commencement:	Credit Points:
ISYS90048 Managing ICT Infrastructure	March, Semester 2	12.50
ISYS90049 Process Analysis Modelling and Design	Semester 1, Semester 2	12.50

### Upper Core

50 points

Subject	Study Period Commencement:	Credit Points:
ISYS90032 Emerging Technologies and Issues	Semester 1, Semester 2	12.50
ISYS90043 Enterprise Applications & Architectures	Semester 1, Semester 2	12.50
ISYS90038 IS Strategy and Governance	March, Semester 2	12.50
ISYS90051 Impact of Digitisation	Semester 1, Semester 2	12.50

### Research Project

50 points

This would typically be in the form of two subjects: 12.5 points in one semester followed by 37.5 points in the following semester. However, the specific sequence will be made by the Specialisation Coordinator and the student's supervisor.

The following subjects are available as building blocks to make up 50 points of the Research Project in a configuration to suit each student's study plan.

Subject	Study Period Commencement:	Credit Points:
ISYS90065 Information Systems Research Proj Major	Semester 1, Semester 2	12.50
ISYS90064 Information Systems Research Proj Major	Semester 1, Semester 2	25
ISYS90063 Information Systems Research Proj Major	Semester 1, Semester 2	37.50
ISYS90062 Information Systems Research Proj Major	Semester 1, Semester 2	50

### Discipline Elective

37.5 points

Students would normally select three subjects from the list of electives presented below (see MIS Discipline Electives). However, students may study electives from elsewhere in the University and if interested they should discuss this with the MIS Coordinator

### MIS DISCIPLINE ELECTIVES

#### *IS Project and Change Management*

Subject	Study Period Commencement:	Credit Points:
ISYS90037 Managing IS Projects: People & Politics	Semester 1	12.50
ISYS90040 Managing Change for IS Professionals	Semester 2	12.50
ISYS90052 Managing Large Projects	Semester 2	12.50

#### *IT Service Provision*

Subject	Study Period Commencement:	Credit Points:
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ISYS90055 Managing IT Outsourcing	Semester 2	12.50
ISYS90036 Enterprise Systems	Semester 1	12.50
ISYS90034 B2B Electronic Commerce	Semester 2	12.50
ISYS90070 Information Security Consulting	June	12.50

*Business Analytics*

Subject	Study Period Commencement:	Credit Points:
ISYS90086 Data Warehousing	Semester 1	12.50
MGMT90141 Business Analysis & Decision Making	Semester 1, Semester 2	12.50
COMP90049 Knowledge Technologies	Semester 1, Semester 2	12.50
MAST90072 Data and Decision Making	Semester 1	12.50

*IT Innovation and Interaction Design*

Subject	Study Period Commencement:	Credit Points:
ISYS90039 Innovation & Entrepreneurship in IT	Not offered 2016	12.50
ISYS90035 Knowledge Management Systems	Semester 1	12.50
ISYS90085 Interaction Design and Usability	Semester 2	12.50

*General Management*

Subject	Study Period Commencement:	Credit Points:
MGMT90140 Management Competencies	January, Semester 1, Semester 2	12.50
MGMT90144 Managing for Value Creation	Semester 1, Semester 2	12.50

*Accounting & Finance*

Subject	Study Period Commencement:	Credit Points:
BISY90008 Information Processes & Control	Not offered 2016	12.50
ACCT90009 Strategic Cost Management	Semester 1, Semester 2	12.50
BISY90009 Managing Information Technology	Semester 1, Semester 2	12.50

*People Management*

Subject	Study Period Commencement:	Credit Points:
MGMT90023 Managing in Information Societies	Not offered 2016	12.50
IBUS90004 Cross Cultural Management and Teamwork	March, August	12.50
MGMT90004 Organisational Behaviour	Not offered 2016	12.50
MKTG90004 Marketing Management	Summer Term, Semester 1, Semester 2	12.50

*Operations & Marketing*

Subject	Study Period Commencement:	Credit Points:
MGMT90032 Operations and Process Management	September	12.50
MKTG90017 Internet Marketing	Semester 2	12.50
MKTG90007 Customer Service Excellence	Semester 1	12.50

*Spatial Information*

Subject	Study Period Commencement:	Credit Points:
GEOM90008 Foundations of Spatial Information	Semester 1	12.50
GEOM90007 Spatial Visualisation	July	12.50
GEOM90015 Spatial Data Infrastructure	Semester 1	12.50
GEOM90016 Advanced Topics in GIScience	Semester 1	12.50
GEOM90018 Spatial Databases	Semester 1	12.50

*eHealth*

Subject	Study Period Commencement:	Credit Points:
ISYS90069 eHealth & Biomedical Informatics Systems	June	12.50
ISYS90078 Health Data, Information and Knowledge	Semester 2	12.50
INFO90001 eHealth & Biomedical Informatics Methods	October	12.50
ISYS90077 EHealth Applications and Solutions	Semester 1	12.50
ISYS90076 IT Infrastructure for eHealth	Semester 1	12.50

*Information Technology*

Other technical computing subjects can be selected from the MIT as elective subjects. For a list of subjects, please refer to: [https://handbook.unimelb.edu.au/view/current/MC-IT \(../view/2014/MC-IT\)](https://handbook.unimelb.edu.au/view/current/MC-IT(..../view/2014/MC-IT))

*Industry Based Learning*

- An application process must be completed for these subjects, see each subjects handbook entry.
- Not available to students undertaking the Research Specialisation.

Subject	Study Period Commencement:	Credit Points:
ISYS90080 IT Industry Placement	Summer Term, Semester 1, Semester 2	25
ISYS90082 Industry Based IT Experience Project	Summer Term, Semester 1, Semester 2	12.50
BUSA90485 Global Business Practicum	January, July	12.50
BUSA90473 Melbourne Business Practicum	February, July	12.50

	ENGR90033 Industry Based Learning	January, Semester 1, Semester 2	25
<b>Entry Requirements:</b>	<p><b>Entry into the MIS Professional Specialisation, applicants must:</b></p> <ul style="list-style-type: none"> <li># Have completed an undergraduate degree in any discipline with at least H3 (65%) average in the final year of study or equivalent.</li> </ul> <p><b>Entry into the MIS Research Specialisation, applicants must:</b></p> <ul style="list-style-type: none"> <li># Have completed an undergraduate degree in any discipline with at least H3 (65%) average in the final year of study or equivalent.</li> <li># Obtain approval from the MIS Coordinator. Students will be required to achieve at least a 75% average with no subject receiving less than 65%. Students must also receive excellent marks in their research foundation subjects to be able to continue in the research specialisation. Entry is dependent on the availability of a suitable supervisor for the chosen area of research. Candidates are encouraged to contact the MIS Coordinator to discuss their application. It is recommended that students who are thinking of undertaking the research specialisation should contact the MIS Coordinator prior to the commencement of the first semester of their study.</li> </ul> <p><b>Language Requirements</b></p> <p>All students studying at the University of Melbourne must satisfy the University's English language entry requirements in accordance with Selection Principles: <b>Regulation 11.1.A2 – Admission and Selection to Courses</b> (<a href="http://www.unimelb.edu.au/Statutes/r111a2.html">http://www.unimelb.edu.au/Statutes/r111a2.html</a>) .  <a href="http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements">http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements</a> (<a href="http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements">http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements</a>)</p> <p>For graduate students the University's English language entry requirements are set out at: <a href="http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements/graduate-toefl-ielts">http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements/graduate-toefl-ielts</a> (<a href="http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements/graduate-toefl-ielts">http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements/graduate-toefl-ielts</a>)</p> <p><b>The University of Melbourne English Language Bridging Program (UMELBP)</b></p> <p>The UMELBP provides a direct English language pathway from Hawthorn-Melbourne to specific courses at the University of Melbourne. Students who have achieved an IELTS band 0.5 lower than their University of Melbourne course entry requirement may be able to proceed directly to their University studies upon successful completion of the UMELBP. More information is available from the <b>Hawthorn Melbourne website</b> (<a href="http://www.hawthornenglish.com/UMELBP.html">http://www.hawthornenglish.com/UMELBP.html</a>) . <a href="http://www.hawthornenglish.com/">http://www.hawthornenglish.com/</a> (<a href="http://www.hawthornenglish.com/">http://www.hawthornenglish.com/</a>)  The Melbourne School of Engineering's English Language alternative may affect the duration and cost of your course <a href="http://www.eng.unimelb.edu.au/study/english-requirements.html">http://www.eng.unimelb.edu.au/study/english-requirements.html</a> (<a href="http://www.eng.unimelb.edu.au/study/english-requirements.html">http://www.eng.unimelb.edu.au/study/english-requirements.html</a>)</p>		
<b>Core Participation Requirements:</b>	<p>The Master of Information Systems welcomes applications from students with disabilities. It is University and degree policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the degree. The Master of Information Systems requires all students to enrol in subjects where they will require: a) the ability to comprehend complex science and technology related information;b) the ability to clearly and independently communicate a knowledge and application of science, and technology principles and practices during assessment tasks;c) the ability to actively and safely contribute in clinical, laboratory, and fieldwork/excursion activities. Students must possess behavioural and social attributes that enable them to participate in a complex learning environment. Students are required to take responsibility for their own participation and learning. They also contribute to the learning of other students in collaborative learning environments, demonstrating interpersonal skills and an understanding of the needs of other students. Assessment may include the outcomes of tasks completed in collaboration with other students. There may be additional inherent academic requirements for some subjects, and these requirements are listed within the description of the requirements for each of these subjects. Students who feel their disability will impact on meeting this requirement are encouraged to discuss this matter with the relevant Subject Coordinator and the Disability Liaison Unit: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a></p>		
<b>Further Study:</b>	<p>An entry pathway to PhD is possible from the 'Research' specialisation.</p>		

<b>Graduate Attributes:</b>	Graduates should have the ability to demonstrate advanced independent critical inquiry, analysis and reflection. The degree has significant engagement and involvement from local and international practicing information systems professionals. Graduating students qualify for membership of the appropriate professional body, the Australian Computer Society, and are informed by the most up-to-date evidence based research in information systems throughout the degree.
<b>Professional Accreditation:</b>	The Master of Information Systems (Professional) is accredited by the Australian Computer Society The Master of Information Systems (Research) will not be accredited by the Australian Computer Society as it is a Research Degree.
<b>Generic Skills:</b>	<p>On completion of the course:</p> <ul style="list-style-type: none"> <li># Have the ability to demonstrate advanced independent critical enquiry, analysis and reflection</li> <li># Have a strong sense of intellectual integrity and the ethics of scholarship</li> <li># Have in-depth knowledge of their specialist area</li> <li># Reach a high level of achievement in writing, research or project activities, problem-solving and communication</li> <li># Be critical and creative thinkers, with an aptitude for continued self-directed learning</li> <li># Be able to examine critically, synthesise and evaluate knowledge across a broad range of disciplines</li> <li># Have a set of flexible and transferable skills for different types of employment</li> <li># Be able to initiate and implement constructive change in their communities, including professions and workplaces.</li> </ul>
<b>Links to further information:</b>	<a href="http://www.msi.unimelb.edu.au">http://www.msi.unimelb.edu.au</a>
<b>Notes:</b>	Prior to 2015 INFO90002 Database Systems & Information Modelling was known as SIN90001 Database Systems & Information Modelling. Credit cannot be obtained for both subjects.