

# R05 RI Master of Science - Information Systems

Year and Campus:	2009
Coordinator:	Dr Reeva Lederman Dr Frank Vetere
Overview:	<p>The Master of Science (Information Systems program) offers a wide range of elective subjects such as Emerging Technologies, IS Strategy and Governance and Impact of Digitisation. Students also choose between two and four Professional Tools subjects and undertake either a 50 or a 100 point research project.</p> <p>Students must complete a total of 200 points over a two year full-time (or four year part-time) program comprising:</p> <ul style="list-style-type: none"> <li># 615-610 Research Methods in Information Systems as a core discipline subject of 12.5 points;</li> <li># between 37.5 and 112.5 points of elective discipline subjects;</li> <li># between 25 and 50 points of professional tools subjects, one of which must be 600-615 Thinking and Reasoning with Data; and</li> <li># a 50 point or a 100 point research project.</li> </ul> <p><b>Core discipline subject (12.5 points)</b></p> <p>Students must take the following subject:</p> <ul style="list-style-type: none"> <li>• 615-610 Research Methods in Information Systems</li> </ul> <p><b>Elective discipline subjects (between 37.5 points and 112.5 points)</b></p> <p>Students must select three to nine approved coursework subjects from the list below:</p> <p><b>IS Skills</b></p> <ul style="list-style-type: none"> <li># 615-680 Information Technology Infrastructure</li> <li># 615-681 Business Analysis Modelling and Design</li> <li># 615-671 Business Applications &amp; Architectures</li> <li># 615-652 Emerging Technologies &amp; Issues</li> </ul> <p><b>IS Management</b></p> <ul style="list-style-type: none"> <li># 615-682 IS Project and Change Management</li> <li># 615-660 IS Strategy and Governance</li> <li># 615-683 Impact of Digitisation</li> <li># 615-695 Professional IS Consulting</li> </ul> <p><b>IS Project &amp; Change Management</b></p> <ul style="list-style-type: none"> <li># 615-659 Advanced IS Project Management</li> <li># 615-662 Advanced IS Change Management</li> <li># 615-692 Organisational Change for IS Managers</li> <li># 615-684 Models of IS Project Management</li> </ul> <p><b>IT Service Provision</b></p> <ul style="list-style-type: none"> <li># 615-685 Managing In-House IT Service Provision</li> <li># 615-687 ICT Contract Law Basics</li> <li># 615-688 ICT Outsourcing Contract Management</li> </ul> <p><b>Business Analytics</b></p> <ul style="list-style-type: none"> <li># 306-622 Business Intelligence (subject to approval from the Melbourne Graduate School of Management)</li> <li># 325-692 Decision Analysis (subject to approval from the Melbourne Graduate School of Management)</li> <li># 615-644 Data Warehousing</li> </ul> <p><b>Interaction Design</b></p>

- # 615-636 Interaction Design and Usability (not available in 2009)
- # 615-672 Pervasive Computing
- # 615-656 Knowledge Management Systems or 615-691 Decision Support Using ICT (not available in 2009)
- # 615-683 Impact of Digitisation

Where appropriate a student may complete up to two approved 200 or 300 level subjects. Students may also select approved postgraduate subjects from cognate disciplines (e.g. computer science, business information systems).

### **Professional tools (between 25 and 50 points)**

Students must take at least 25 points (2 subjects) but no more than 50 points of Professional Tools subjects; one of which must be 600-615 Thinking and Reasoning with Data:

- # 600-615 Thinking and Reasoning with Data (compulsory)
- # 600-614 Business Tools: Money, People and Projects
- # Business Tools: The Market Environment (available semester 1, 2010)
- # Critical Analysis in Science (available semester 2, 2010)
- # eScience (available semester 2, 2010)
- # 600-617 Systems Modelling and Simulation
- # 600-618 Ethics and Responsibility in Science
- # 600-616 Science in Context
- # 600-619 Science and Communication

### **Research Project (50 points or 100 points)**

Students will gain research experience in Information Systems (or cognate discipline) by completing a thesis (worth 100% of the overall score) and two oral presentations (hurdle). Students may complete a 50 point Minor Research Project or, with approval from the Course Coordinator, a 100 point Major Research Project.

#### *Minor Research Project (50 points):*

Students complete a thesis of no more than 12,000 words. This is the recommended path for most students.

Students may enrol in a combination of research project subjects as indicated below, over their two years of full-time study or over their four years of part-time study, to ensure they have completed a total of 50 points for the minor research project by the end of their course.

#### 50 point Minor Research Project:

- # 615-613 Information Systems Research Project Minor – 12.5 points
- # 615-612 Information Systems Research Project Minor – 25.0 points
- # 615-611 Information Systems Research Project Minor – 37.5 points
- # 615-607 Information Systems Research Project Minor – 50 points

#### *Major Research Project (100 points):*

Students complete a thesis of no more than 22,000 words. This option can only be undertaken with approval from the Course Coordinator.

Students may enrol in a combination of research project subjects as indicated below, over their two years of full-time study or over their four years of part-time study, to ensure they have completed a total of 100 points for the major research project by the end of their course.

#### 100 point Major Research Project:

- # 615-617 Information Systems Research Project Major – 12.5 points
- # 615-616 Information Systems Research Project Major – 25.0 points
- # 615-615 Information Systems Research Project Major – 37.5 points
- # 615-614 Information Systems Research Project Major – 50 points

<b>Objectives:</b>	<p>On completion of this course students should have:</p> <ul style="list-style-type: none"> <li># a comprehensive understanding of the process and practice of research in Information Systems;</li> <li># a sophisticated understanding of the Information Systems discipline;</li> <li># completed a substantial piece of original research; and</li> <li># the necessary skills for further advanced research in Information Systems (e.g. in doctoral studies)</li> </ul>																																																																																			
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<b>Related Course(s):</b>	Master of Science		