Master of Information Systems – Health Specialisation

Course Coordinator: Dr Sean Maynard (MIS-HELP@unimelb.edu.au)
Specialisation Coordinator: Dr Kathleen Gray (MIS-HELP@unimelb.edu.au)

https://currentstudents.eng.unimelb.edu.au/coursework/study-resources/study-guide/

Course Planning – Health Specialisation - Semester 1 Start

This document outlines the preferred course plan for the MIS Professional Specialisation. This specialization is normally undertaken across 4 semesters (2 years) on a full time basis or 8 semesters (4 years) on a part time basis. Part time students should do no more than 2 subjects per semester. On application, students may apply for credit exemptions based on their background as specified in the MC-IS handbook entry https://handbook.unimelb.edu.au/2018/courses/mc-is/entry-participation-requirements. All credit exemptions must be processed by the end of the second week of your 1st semester.

There are 16 subjects of study:

**Foundation Core:** 4 compulsory foundation subjects  
**Capstone:** 1 capstone (25 point) subject  
**Lower Core:** 4 compulsory subjects  
**Electives:** 2 subjects of your choice  
**Upper Core:** 4 compulsory subjects

Your course should progress through the foundation core subjects before you undertake the lower core subjects over the 1st year of your study. In your 3rd semester you should undertake 3 upper core subjects and an elective. In your final semester you should complete 1 upper core subject, 1 elective and the capstone subject.

**NOTES:**

* Students who have an average of 75% or more may be allowed to undertake the following alternative capstones:
  - ENGR90033 Industry Based Learning (health project) OR
  - Both of (students wanting this option must also have studied COMP90044 as an elective)
    - ISYS90109 Information Systems Min Res Project Pt 1
    - ISYS90110 Information Systems Min Res Project Pt 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Level</th>
<th>Subject</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (full time)</td>
<td>Foundation Core</td>
<td>INFO90002 Database Systems &amp; Information Modelling</td>
<td></td>
</tr>
<tr>
<td>1 &amp; 2 (part time)</td>
<td>Foundation Core</td>
<td>ISYS90026 Fundamentals of Information Systems</td>
<td></td>
</tr>
<tr>
<td>1 &amp; 2 (part time)</td>
<td>Foundation Core</td>
<td>ISYS90069 eHealth &amp; Biomedical Informatics Systems</td>
<td></td>
</tr>
<tr>
<td>1 &amp; 2 (part time)</td>
<td>Foundation Core</td>
<td>COMP90059 Introduction to Programming (from 2019)</td>
<td></td>
</tr>
<tr>
<td>2 (full time)</td>
<td>Lower Core</td>
<td>ISYS90050 IT Project and Change Management</td>
<td></td>
</tr>
<tr>
<td>2 (full time)</td>
<td>Lower Core</td>
<td>ISYS90049 Business Analysis Modelling and Design</td>
<td></td>
</tr>
<tr>
<td>2 (full time)</td>
<td>Lower Core</td>
<td>INFO90001 eHealth &amp; Biomedical Informatics Methods</td>
<td></td>
</tr>
<tr>
<td>2 (full time)</td>
<td>Lower Core</td>
<td>ISYS90078 Health Data, Information and Knowledge</td>
<td></td>
</tr>
<tr>
<td>3 (full time)</td>
<td>Upper Core</td>
<td>ISYS90043 Enterprise Applications &amp; Architectures</td>
<td></td>
</tr>
<tr>
<td>3 (full time)</td>
<td>Upper Core</td>
<td>ISYS90076 IT Infrastructure for eHealth</td>
<td></td>
</tr>
<tr>
<td>3 (full time)</td>
<td>Upper Core</td>
<td>ISYS90077 eHealth Applications and Solutions</td>
<td></td>
</tr>
<tr>
<td>3 (full time)</td>
<td>Elective</td>
<td>choose ONE – see Electives</td>
<td></td>
</tr>
<tr>
<td>3 (full time)</td>
<td>Elective</td>
<td>ISYS90038 IS Strategy and Governance</td>
<td></td>
</tr>
<tr>
<td>4 (full time)</td>
<td>Upper Core</td>
<td>ISYS90038 IS Strategy and Governance</td>
<td></td>
</tr>
<tr>
<td>4 (full time)</td>
<td>Capstone (25 pts)</td>
<td>ISYS90079 Health IT Project (this is the default)</td>
<td></td>
</tr>
<tr>
<td>4 (full time)</td>
<td>Elective</td>
<td>choose ONE – see Electives</td>
<td></td>
</tr>
</tbody>
</table>

Students showing past expertise in foundation and lower core subjects may be able to replace them with ISYS / INFO9xxxx electives. For instance,

- If you have already studied database then INFO90002 will be replaced by an ISYS / INFO9xxxx elective in your course.

All exemptions are assessed in the application process. If you haven’t been given exemptions to subjects that you think you should have been, send an email (including your degree transcripts AND STUDENT ID) to MIS-HELP@unimelb.edu.au, stating exactly what you require.

Jan 2019
This document outlines the preferred course plan for the MIS Professional Specialisation. This specialization is normally undertaken across 4 semesters (2 years) on a full time basis or 8 semesters (4 years) on a part time basis. Part time students should do no more than 2 subjects per semester. On application, students may apply for credit exemptions based on their background as specified in the MC-IS handbook entry [https://handbook.unimelb.edu.au/2018/courses/mc-is-entry-participation-requirements](https://handbook.unimelb.edu.au/2018/courses/mc-is-entry-participation-requirements). All credit exemptions must be processed by the end of the second week of your 1st semester.

There are 16 subjects of study:

**Foundation Core:** 4 compulsory foundation subjects

**Lower Core:** 4 compulsory subjects

**Upper Core:** 4 compulsory subjects

Your course should progress through the foundation core subjects before you undertake the lower core subjects over the 1st year of your study. In your 3rd semester you should undertake 3 upper core subjects and an elective. In your final semester you should complete 1 upper core subject, 1 elective and the capstone subject.

**NOTES:**
- Students showing past expertise in foundation and lower core subjects may be able to replace them with ISYS / INFO9xxxx electives. For instance,
  - If you have already studied database then INFO90002 will be replaced by an ISYS / INFO9xxxx elective in your course.
- All exemptions are assessed in the application process. If you haven’t been given exemptions to subjects that you think you should have been, send an email (including your degree transcripts AND STUDENT ID) to MIS-HELP@unimelb.edu.au, stating exactly what you require.
DISCIPLINE ELECTIVES  50 points

Students would normally select two subjects from the list of electives. Students may also study electives from elsewhere in the University and if interested they should discuss this with the MIS coordinator.

MIS Core Subjects
ISYS90081 Business Process Management
ISYS90045 Professional IS Consulting
ISYS90032 Emerging Technologies and Issues
ISYS90051 Impact of Digitisation

IS Project & Change Management
ISYS90040 Managing Change for IS Professionals

IT Service Provision
ISYS90034 B2B Electronic Commerce
ISYS90036 Enterprise Systems
ISYS90055 Managing IT Outsourcing
ISYS90070 Information Security Consulting

Business Analytics
ISYS90086 Data Warehousing
MGMT90141 Business Analysis & Decision Making
COMP90049 Knowledge Technologies
MAST90044 Thinking and Reasoning with Data

IT Innovation
ISYS90035 Knowledge Management Systems
ISYS90039 Innovation & Entrepreneurship in IT
ISYS90087 Service Management and Innovation

Interaction Design
INFO90004 Evaluating the User Experience
INFO90003 Designing Novel Interactions
INFO90006 Fieldwork for Design
INFO90007 Social Computing

Health
POPH90263 Technology and Ageing
BINF90002 Elements of Bioinformatics
LAW970421 Health Law and Emerging Technologies
POPH90013 Biostatistics
POPH90117 Health Indicators and Health Surveys
POPH90294 Consumer Participatory Health Technology

Technical Computing
Students can take any subject from the MIT (COMP9xxxx/SWEN9xxxx) offerings as long as they have the prerequisite knowledge. See https://handbook.unimelb.edu.au/courses/MC-IT

Spatial
GEOM9008 Foundations of Spatial Information
GEOM90007 Spatial Visualisation
GEOM90015 Spatial Data Infrastructure
GEOM90018 Spatial Databases

General Management
MGMT90140 Management Competencies
MGMT90037 Managing for Value Creation
MGMT90111 Management and Business Communication
MGMT90018 Managerial Psychology
ECON90015 Managerial Economics

Accounting & Finance
ACCT90004 Accounting for Decision Making
ACCT90009 Strategic Cost Management
BISY90009 Managing Information Technology
ACCT90012 Corporate Reporting

Operations & Marketing
MGMT90032 Operations & Process Management
MKTG90017 Internet Marketing
MKTG90007 Service Marketing
MKTG90004 Marketing Management
MKTG90008 Consumer Behaviour

People Management
IBUS90004 Cross Cultural management & Teamwork
MGMT90011 Managing Stakeholders