Course Planning – Health Specialisation

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

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 starting in the 2nd half of the year MUST complete ISYS90069 concurrently with INFO90001 and ISYS90078 in their 2nd semester to complete their course within the 2 year period!
- * 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 COMO90044 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>
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<tr>
<td>1 &amp; 2 (part time)</td>
<td>Foundation Core</td>
<td>ISYS90026 Fundamentals of Information Systems</td>
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<td></td>
<td>Foundation Core</td>
<td>#ISYS90069 eHealth &amp; Biomedical Informatics Systems</td>
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<td></td>
<td>Foundation Core</td>
<td>COMP90059 Introduction to Programming (from 2019)</td>
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<tr>
<td>2 (full time)</td>
<td>Lower Core</td>
<td>ISYS90050 IT Project and Change Management</td>
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<td>3 &amp; 4 (part time)</td>
<td>Lower Core</td>
<td>ISYS90049 Business Analysis Modelling and Design</td>
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<tr>
<td></td>
<td>Lower Core</td>
<td>#INFO90001 eHealth &amp; Biomedical Informatics Methods</td>
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<tr>
<td></td>
<td>Lower Core</td>
<td>#ISYS90078 Health Data, Information and Knowledge</td>
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<td>3 (full time)</td>
<td>Upper Core</td>
<td>ISYS90043 Enterprise Applications &amp; Architectures</td>
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<td>5 &amp; 6 (part time)</td>
<td>Upper Core</td>
<td>ISYS90076 IT Infrastructure for eHealth</td>
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<tr>
<td></td>
<td>Upper Core</td>
<td>ISYS90077 eHealth Applications and Solutions</td>
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<tr>
<td></td>
<td>Elective</td>
<td>choose ONE – see Electives</td>
<td></td>
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<tr>
<td>4 (full time)</td>
<td>Upper Core</td>
<td>ISYS90038 IS Strategy and Governance</td>
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<tr>
<td>7 &amp; 8 (part time)</td>
<td>Capstone (25 pts)</td>
<td>ISYS90079 Health IT Project (this is the default)</td>
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<tr>
<td></td>
<td>Elective</td>
<td>choose ONE – see Electives</td>
<td></td>
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</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.

Oct 2018
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/

**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
- LAWS70421 Health Law and Emerging Technologies1
- POPH90013 Biostatistics
- POPH90117 Health Indicators and Health Surveys
- POPHNNNN Consumer Participatory Health Technology

**Technical Computing**
- Students can take any subject from the MIT (COMP9xxx/SWEN9xxxx) offerings as long as they have the prerequisite knowledge. See https://handbook.unimelb.edu.au/courses/MC-IT

**Spatial**
- GEOM90008 Foundations of Spatial Information
- GEOM90007 Spatial Visualisation
- GEOM90015 Spatial Data Infrastructure
- GEOM90018 Spatial Databases

**General Management**
- MGMT90140 Management Competencies
- MKTG90037 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