# Master of Computing

## Artificial Intelligence Specialisation

**Instructions**

1. Make sure that you are familiar with the program requirements of your degree.
2. Make sure you are following the program requirements for the academic year that you commenced your degree.
3. Fill in the boxes once you have successfully passed the course (or if you have been awarded course credit or exemption).
4. Ensure that you have completed the minimum unit requirements for each section.
5. Always check your enrolments with CECS Student Services to ensure that you are on track to graduate.

The Master of Computing requires completion of 96 units, of which:

- A minimum of 6 courses must come from completion of 8000-level courses.

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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</thead>
</table>

### Compulsory Courses

**Complete the 5x courses listed below**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Completed</th>
<th>Awarded as Credit</th>
<th>Awarded as Exemption</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP6710</td>
<td>Structured Programming</td>
<td>6</td>
<td></td>
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<tr>
<td>COMP6250</td>
<td>Professional Practice 1</td>
<td>6</td>
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<tr>
<td>COMP6442</td>
<td>Software Construction</td>
<td>6</td>
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<tr>
<td>COMP8110</td>
<td>Managing Software Projects in a System Context</td>
<td>6</td>
<td></td>
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</tr>
<tr>
<td>COMP8260</td>
<td>Professional Practice 2</td>
<td>6</td>
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</table>

### Compulsory Foundational Courses

**Complete 1x of the courses listed below**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Completed</th>
<th>Awarded as Credit</th>
<th>Awarded as Exemption</th>
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</thead>
<tbody>
<tr>
<td>MATH6005</td>
<td>Discrete Mathematical Models</td>
<td>6</td>
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</tr>
<tr>
<td>COMP6260</td>
<td>Foundations of Computing</td>
<td>6</td>
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</tbody>
</table>
### Compulsory Software Development Courses

**Complete 1x of the courses listed below**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Completed at ANU</th>
<th>Awarded as Credit</th>
<th>Awarded as Exemption</th>
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</thead>
<tbody>
<tr>
<td>COMP6120</td>
<td>Software Engineering</td>
<td>6 units</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>COMP8190</td>
<td>Model-driven Software Development</td>
<td>6 units</td>
<td>☐</td>
<td>☐</td>
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**Availability:** Semester 2 (biennial – runs every two years)

**Prerequisites:** N/A

### Compulsory Database Courses

**Complete 1x of the courses listed below**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Completed at ANU</th>
<th>Awarded as Credit</th>
<th>Awarded as Exemption</th>
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</thead>
<tbody>
<tr>
<td>COMP6240</td>
<td>Relational Databases</td>
<td>6 units</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>COMP6420</td>
<td>Introduction to Data Management, Analysis and Security</td>
<td>6 units</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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**Availability:** Semester 2

**Prerequisites:** N/A

### Compulsory Computer Networks Courses

**Complete 1x of the courses listed below**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Completed at ANU</th>
<th>Awarded as Credit</th>
<th>Awarded as Exemption</th>
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</thead>
<tbody>
<tr>
<td>COMP6331</td>
<td>Computer Networks</td>
<td>6 units</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>COMP6340</td>
<td>Networked Information Systems</td>
<td>6 units</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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**Availability:** Semester 1

**Prerequisites:**
- Successful completion of COMP6710 or COMP6310 or COMP6442

### Compulsory Research or Internship Courses

**Complete 1x of the courses listed below**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Completed at ANU</th>
<th>Awarded as Credit</th>
<th>Awarded as Exemption</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP8715</td>
<td>Computing Project</td>
<td>12 units</td>
<td>☐</td>
<td>☐</td>
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</tr>
<tr>
<td>COMP8755</td>
<td>Individual Computing Project</td>
<td>12 units</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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**Availability:** Semester 1 / Semester 2

**Prerequisites:**
- Successful completion of COMP6442
- Successful completion of COMP8260

**Before you enrol into this course you must:**
- Find a Project Supervisor
- Complete an ‘Independent Study Contract’
- Obtain approval from the Course Convenor
**COMP8830 Computer Science Internship** (12 units)
- completed at the ANU  □  awarded as credit  □  awarded as exemption

**Prerequisites:**
- Successful completion or current enrolment in COMP6442
- Successful completion of COMP8260

**Before you enrol into this course you must:**
- Have a GPA 5.0/7.0
- Successfully complete 8x courses in your current ANU degree
- Complete an online ‘Expression of Interest’ form
- Submit a copy of your curriculum vitae to CECS Student Services

This course must be completed in one semester

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**Specialisation Courses – Artificial Intelligence**

**Complete 4x of the courses listed below**

**COMP6262 Logic** (6 units)
- completed at the ANU  □  awarded as credit  □  awarded as exemption

**Availability:** Semester 1

**Prerequisites:** N/A

**COMP6320 Artificial Intelligence** (6 units)
- completed at the ANU  □  awarded as credit  □  awarded as exemption

**Availability:** Semester 1

**Prerequisites:**
- Successful completion of COMP6710
- Successful completion or current enrolment in COMP6262

**COMP8620 Advanced Topics in Artificial Intelligence** (6 units)
- completed at the ANU  □  awarded as credit  □  awarded as exemption

**Availability:** Semester 2 (biennial – runs every two years)

**Prerequisites:**
- Successful completion of COMP6320

**COMP8691 Optimisation** (6 units)
- completed at the ANU  □  awarded as credit  □  awarded as exemption

**Availability:** Semester 2

**Prerequisites:**
- Successful completion of COMP6320

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**Specified Elective Courses**

**Complete 1x 6000- or 8000-level COMP-coded course**

**Course:** ___________________________
- completed at the ANU  □  awarded as credit
### 2020 Suggested Study Plan – Semester 2 Commencement

#### YEAR 1

**Semester 2, 2020**
- COMP6710 Structured Programming
- COMP6250 Professional Practice 1
- COMP6260 Foundations of Computing
- COMP6240 Relational Databases

**Semester 1, 2021**
- COMP6442 Software Construction
- COMP8260 Professional Practice 2
- COMP6262 Logic
- COMP6320 Artificial Intelligence

#### YEAR 2

**Semester 2, 2021**
- COMP8715 Computing Project
  - OR
- COMP6120 Software Engineering
- COMP8620 Advanced Topics in Artificial Intelligence
- COMP8691 Optimisation

**Semester 1, 2022**
- COMP8755 Individual Computing Project
- COMP8110 Managing Software Projects in a System Context
- COMP6331 Computer Networks
  - OR
- COMP6340 Networked Information Systems

#### ALTERNATIVE FINAL YEAR

**Semester 2, 2021**
- COMP6120 Software Engineering
- COMP8620 Advanced Topics in Artificial Intelligence
- COMP8691 Optimisation
- COMP-coded 6000- or 8000-level course

**Semester 1, 2022**
- COMP8755 Individual Computing Project
  - OR
- COMP8830 Computer Science Internship
- COMP-coded 6000- or 8000-level course
- COMP6331 Computer Networks
  - OR
- COMP6340 Networked Information Systems