# Artificial Intelligence BSc (Hons) options 2018-2019

If you wish to take an external unit which is not listed on your programme course unit list you must get permission from your Year Tutor. This applies for every year of your programme. If your choices do not meet the School’s course unit and theme requirements you will be contacted and be required to change your choices.

## Level 1 - compulsory units

All of the units in this pool are mandatory.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>COMP10120</td>
<td>First Year Team Project</td>
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<tr>
<td>COMP11120</td>
<td>Mathematical Techniques for Computer Science</td>
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<tr>
<td>COMP11212</td>
<td>Fundamentals of Computation</td>
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<tr>
<td>COMP12112</td>
<td>Fundamentals of Computer Engineering</td>
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<td>COMP14112</td>
<td>Fundamentals of Artificial Intelligence</td>
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<tr>
<td>COMP15111</td>
<td>Fundamentals of Computer Architecture</td>
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<tr>
<td>COMP16121</td>
<td>Object Oriented Programming with Java 1</td>
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<td>COMP16212</td>
<td>Object Oriented Programming with Java 2</td>
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<tr>
<td>COMP18112</td>
<td>Fundamentals of Distributed Systems</td>
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## Level 2 options

**MANDATORY UNITS - 80 CREDITS**  
**OPTIONAL UNITS - 40 CREDITS**

From the optional lists you must choose 10 credits from semester one and 30 credits from semester two. This programme requires 2 themes to be completed from the following list.

- * Learning and Search in Artificial Intelligence (COMP24111 & COMP34120)
- * Natural Language, Representation and Reasoning (COMP24412 & COMP34412)
- * Visual Computing (COMP27112, COMP37111 & COMP37212)

## Level 2 - compulsory units

All of the units in this pool are mandatory.

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<th>Code</th>
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<tr>
<td>COMP23111</td>
<td>Fundamentals of Databases</td>
<td>10</td>
<td>Web and Distributed Systems</td>
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<tr>
<td>COMP23311</td>
<td>Software Engineering 1</td>
<td>10</td>
<td>Agile Methods</td>
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<tr>
<td>COMP23412</td>
<td>Software Engineering 2</td>
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<td>Agile Methods</td>
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<td>Machine Learning and Optimisation</td>
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<td>Learning and Search in Artificial Intelligence</td>
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<td>Symbolic AI</td>
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<td>Natural Language, Representation and Reasoning</td>
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<td>COMP25111</td>
<td>Operating Systems</td>
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<tr>
<td>COMP26120</td>
<td>Algorithms and Imperative Programming</td>
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<td>Computer Languages</td>
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## Level 2 - option pool 1

From this option pool choose a maximum of 10 credits and a minimum of 0 credits.

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<tr>
<td>COMP21111</td>
<td>Logic and Modelling</td>
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<td>Rigorous Development</td>
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<td>Processor Microarchitecture</td>
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## Level 2 - option pool 2

From this option pool choose a maximum of 30 credits and a minimum of 20 credits.

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<td>Computer Graphics and Image Processing</td>
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<td>Visual Computing</td>
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<td>Distributed Computing</td>
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<td>COMP28512</td>
<td>Mobile Systems</td>
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<td>Mobile Computing and Networks</td>
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Level 2 - option pool 3
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<td>Fundamentals of Financial Reporting</td>
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<td>New Product Development and Innovation</td>
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<td>UCIL.10201</td>
<td>Language, Mind and Brain</td>
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<td>Core Themes in Animation and Visual Culture of Post War Japan</td>
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<td>Are we alone?</td>
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<td>From Cholera to Aids: A Global History of Epidemics</td>
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Level 2 - option pool 4
From this option pool choose a maximum of 10 credits and a minimum of 0 credits.

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<td>Business Economics</td>
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<td>Fundamentals of Accounting</td>
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<td>Introduction to Corporate Finance &amp; Financial Instruments</td>
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<td>BMAN20792</td>
<td>Technology Strategy &amp; Innovation 1</td>
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<td>Marketing</td>
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<td>Global Contexts of Business and Management</td>
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<td>AF: Robot Overlord, Replacement or Colleague?</td>
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<td>Communicating with Confidence</td>
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<td>UCIL21802</td>
<td>Body, Health and Well-Being</td>
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<td>Physics &amp; The Grand Challenges of Today</td>
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School of Computer Science
**Level 2 - option pool 5**

From this option pool choose a maximum of 20 credits and a minimum of 0 credits.

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**Level 3 options**

**MANDATORY UNITS - 40 CREDITS**

**OPTIONAL UNITS - 80 CREDITS**

From the optional lists you must choose 40 credits from semester one and 40 credits from semester two. This programme requires 2 themes to be completed from the following list.

* Learning and Search in Artificial Intelligence (COMP24111 & COMP34120)
* Natural Language, Representation and Reasoning (COMP24412 & COMP34412)
* Visual Computing (COMP27112, COMP37111 & COMP37212)

**Level 3 - compulsory units**

All of the units in this pool are mandatory.

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### Level 3 - option pool 1

From this option pool choose a maximum of 40 credits and a minimum of 20 credits.

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<td>COMP33511</td>
<td>User Experience</td>
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<td>Interactive Systems Design</td>
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<td>Agile Software Engineering</td>
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<td>Agile Methods</td>
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<td>Advanced Algorithms 1</td>
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<td>Programming and Algorithms</td>
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<td>COMP38411</td>
<td>Cryptography and Network Security</td>
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### Level 3 - option pool 2

From this option pool choose a maximum of 40 credits and a minimum of 20 credits.

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### Level 3 - option pool 3

From this option pool choose a maximum of 40 credits and a minimum of 0 credits.

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<td>Documents, Services and Data on the Web</td>
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### Level 3 - option pool 4

From this option pool choose a maximum of 20 credits and a minimum of 0 credits.

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<td>Strategy</td>
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