Computer Science (Human Computer Interaction) MEng (Hons) options 2019-2020

Level 1 - compulsory units
All of the units in this pool are mandatory.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP10120</td>
<td>First Year Team Project</td>
<td>20</td>
</tr>
<tr>
<td>COMP15111</td>
<td>Fundamentals of Computer Architecture</td>
<td>10</td>
</tr>
<tr>
<td>BIOL10832</td>
<td>Excitable Cells</td>
<td>10</td>
</tr>
<tr>
<td>COMP13212</td>
<td>Data Science</td>
<td>10</td>
</tr>
<tr>
<td>COMP16321</td>
<td>Introduction to Programming 1</td>
<td>20</td>
</tr>
<tr>
<td>COMP16412</td>
<td>Introduction to Programming 2</td>
<td>10</td>
</tr>
<tr>
<td>PSYC10100</td>
<td>Research Methods</td>
<td>20</td>
</tr>
<tr>
<td>PSYC10431</td>
<td>Introduction to Cognition</td>
<td>5</td>
</tr>
<tr>
<td>PSYC11222</td>
<td>Brain and Behaviour</td>
<td>10</td>
</tr>
<tr>
<td>PSYC11322</td>
<td>Sensation &amp; Perception</td>
<td>5</td>
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</table>

Level 2 options
All of the units in this pool are mandatory.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>COMP23111</td>
<td>Fundamentals of Databases</td>
<td>10</td>
<td>Web and Distributed Systems</td>
</tr>
<tr>
<td>COMP23311</td>
<td>Software Engineering 1</td>
<td>10</td>
<td>Agile Methods</td>
</tr>
<tr>
<td>COMP23412</td>
<td>Software Engineering 2</td>
<td>10</td>
<td>Agile Methods</td>
</tr>
<tr>
<td>COMP25111</td>
<td>Operating Systems</td>
<td>10</td>
<td>Computer Architecture</td>
</tr>
<tr>
<td>COMP26112</td>
<td>Distributed Computing</td>
<td>10</td>
<td>Web and Distributed Systems</td>
</tr>
<tr>
<td>BIOL22332</td>
<td>Motor Systems for Human Computer Interaction</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>BIOL22341</td>
<td>Sensory Systems for Human Computer Interaction</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>PSYC21112</td>
<td>Perception &amp; Action</td>
<td>5</td>
<td>None</td>
</tr>
<tr>
<td>PSYC21122</td>
<td>Cognitive Neuroscience</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>PSYC21181</td>
<td>Cognition</td>
<td>5</td>
<td>None</td>
</tr>
<tr>
<td>SOST20022</td>
<td>Essentials of Survey Design &amp; Analysis</td>
<td>20</td>
<td>None</td>
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</table>

Level 2 - option pool 1
From this option pool choose 10 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Theme</th>
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<tbody>
<tr>
<td>COMP25212</td>
<td>System Architecture</td>
<td>10</td>
<td>Computer Architecture</td>
</tr>
<tr>
<td>COMP27112</td>
<td>Computer Graphics and Image Processing</td>
<td>10</td>
<td>Visual Computing</td>
</tr>
<tr>
<td>COMP28512</td>
<td>Mobile Systems</td>
<td>10</td>
<td>Mobile Computing and Networks</td>
</tr>
<tr>
<td>BIOL21321</td>
<td>Membrane Excitability</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>BIOL21451</td>
<td>How to Make a Brain</td>
<td>10</td>
<td>None</td>
</tr>
</tbody>
</table>

Level 3 options
You have 80 credits of compulsory course units listed in the table "compulsory units" below.
Out of the remaining 40 credits of free choice:
You must choose 20 credits of optional COMP course units from option pool 1 below.
You must choose 20 credits of other optional course units from option pool 2 below.
You must ensure your credits are balanced over the academic year (60 credits in each semester).

Level 3 - compulsory units
All of the units in this pool are mandatory.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>COMP30030</td>
<td>3rd Year Project (Joint Hons 30 Credits)</td>
<td>30</td>
<td>None</td>
</tr>
<tr>
<td>COMP33511</td>
<td>User Experience</td>
<td>10</td>
<td>Interactive Systems Design</td>
</tr>
<tr>
<td>MCEL30031</td>
<td>Enterprise Management for Computer Scientists</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
<td>Theme</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------------</td>
<td>---------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>COMP33711</td>
<td>Agile Software Engineering</td>
<td>10</td>
<td>Agile Methods</td>
</tr>
<tr>
<td>COMP34412</td>
<td>Natural Language Systems</td>
<td>10</td>
<td>Natural Language, Representation and Reasoning</td>
</tr>
<tr>
<td>COMP36512</td>
<td>Compilers</td>
<td>10</td>
<td>Computer Languages</td>
</tr>
<tr>
<td>COMP38211</td>
<td>Documents, Services and Data on the Web</td>
<td>10</td>
<td>None</td>
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</table>

**Level 3 - option pool 2**

From this option pool choose 20 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL21451</td>
<td>How to Make a Brain</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>BIOL31681</td>
<td>Clocks, Sleep &amp; the Rhythms of Life</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>BIOL31692</td>
<td>Learning, Memory &amp; Cognition</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>PSYC31122</td>
<td>Emotion</td>
<td>20</td>
<td>None</td>
</tr>
<tr>
<td>PSYC31142</td>
<td>The Psychology of Time</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>PSYC31242</td>
<td>Understanding Dementia: Brain &amp; Behaviour</td>
<td>20</td>
<td>None</td>
</tr>
<tr>
<td>SOAN30811</td>
<td>Anthropology of Vision, Memory and the Senses</td>
<td>20</td>
<td>None</td>
</tr>
<tr>
<td>SOST30031</td>
<td>Modelling Social Inequality</td>
<td>20</td>
<td>None</td>
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</tbody>
</table>

**Level 4 - compulsory units**

All of the units in this pool are mandatory.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP40901</td>
<td>UG MEng Industrial Project</td>
<td>25</td>
</tr>
<tr>
<td>MCEL40042</td>
<td>Business Feasibility Study</td>
<td>15</td>
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**Level 4 - option pool 1**

From this option pool choose 45 credits.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>COMP60411</td>
<td>Modelling data on the web</td>
<td>15</td>
</tr>
<tr>
<td>COMP60711</td>
<td>Data Engineering</td>
<td>15</td>
</tr>
<tr>
<td>COMP61011</td>
<td>Foundations of Machine Learning</td>
<td>15</td>
</tr>
<tr>
<td>COMP61021</td>
<td>Modelling and visualization of high-dimensional data</td>
<td>15</td>
</tr>
<tr>
<td>COMP61232</td>
<td>Mobile and Energy Efficient Systems</td>
<td>15</td>
</tr>
<tr>
<td>COMP61242</td>
<td>Mobile Communications</td>
<td>15</td>
</tr>
<tr>
<td>COMP61332</td>
<td>Text Mining</td>
<td>15</td>
</tr>
<tr>
<td>COMP62342</td>
<td>Ontology Engineering for the Semantic Web</td>
<td>15</td>
</tr>
<tr>
<td>COMP62421</td>
<td>Querying Data on the Web</td>
<td>15</td>
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<tr>
<td>COMP62532</td>
<td>Component-based Software Development</td>
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</table>

**Level 4 - option pool 2**

From this option pool choose 15 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMP60532</td>
<td>Principles of Digital Biology</td>
<td>15</td>
</tr>
<tr>
<td>BIOL60771</td>
<td>Advanced Biotechnology</td>
<td>15</td>
</tr>
<tr>
<td>BIOL61820</td>
<td>Bioinformatics for Systems Biology</td>
<td>15</td>
</tr>
<tr>
<td>PSYC60132</td>
<td>Cognitive and Social Neuroscience</td>
<td>15</td>
</tr>
<tr>
<td>SOST70011</td>
<td>Introduction to Statistical Modelling</td>
<td>15</td>
</tr>
</tbody>
</table>

**Level 4 - option pool 3**

From this option pool choose 15 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP60542</td>
<td>Introduction to Health Informatics</td>
<td>15</td>
</tr>
<tr>
<td>BIOL60140</td>
<td>Advanced Methods for Biological Sequence Analysis</td>
<td>15</td>
</tr>
<tr>
<td>PSYC60142</td>
<td>Clinical and Behavioural Neuroscience</td>
<td>15</td>
</tr>
<tr>
<td>SOST70292</td>
<td>Multilevel Modelling</td>
<td>15</td>
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