Computer Science 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>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP10120</td>
<td>First Year Team Project</td>
<td>20</td>
</tr>
<tr>
<td>COMP11120</td>
<td>Mathematical Techniques for Computer Science</td>
<td>20</td>
</tr>
<tr>
<td>COMP11212</td>
<td>Fundamentals of Computation</td>
<td>10</td>
</tr>
<tr>
<td>COMP12111</td>
<td>Fundamentals of Computer Engineering</td>
<td>10</td>
</tr>
<tr>
<td>COMP14112</td>
<td>Fundamentals of Artificial Intelligence</td>
<td>10</td>
</tr>
<tr>
<td>COMP15111</td>
<td>Fundamentals of Computer Architecture</td>
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</tr>
<tr>
<td>COMP16121</td>
<td>Object Oriented Programming with Java 1</td>
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</tr>
<tr>
<td>COMP16212</td>
<td>Object Oriented Programming with Java 2</td>
<td>10</td>
</tr>
<tr>
<td>COMP18112</td>
<td>Fundamentals of Distributed Systems</td>
<td>10</td>
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</table>

**Level 2 options**

MANDATORY UNITS - 60 CREDITS
OPTIONAL UNITS - 60 CREDITS

From the optional lists you must choose 20 credits from semester one and 40 credits from semester two.

**Level 2 - 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>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>COMP26120</td>
<td>Algorithms and Imperative Programming</td>
<td>20</td>
<td>Computer Languages</td>
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</table>

**Level 2 - option pool 1**

From this option pool choose a maximum of 20 credits and a minimum of 10 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>COMP21111</td>
<td>Logic and Modelling</td>
<td>10</td>
<td>Rigorous Development</td>
</tr>
<tr>
<td>COMP22111</td>
<td>Processor Microarchitecture</td>
<td>10</td>
<td>System-on-Chip</td>
</tr>
<tr>
<td>COMP24111</td>
<td>Machine Learning and Optimisation</td>
<td>10</td>
<td>Learning and Search in Artificial Intelligence</td>
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</tbody>
</table>

**Level 2 - option pool 2**

From this option pool choose a maximum of 40 credits and a minimum of 30 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Theme</th>
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<tbody>
<tr>
<td>COMP22712</td>
<td>Microcontrollers</td>
<td>10</td>
<td>None</td>
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<tr>
<td>COMP24412</td>
<td>Symbolic AI</td>
<td>10</td>
<td>Natural Language, Representation and Reasoning</td>
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<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>COMP28112</td>
<td>Distributed Computing</td>
<td>10</td>
<td>Web and Distributed Systems</td>
</tr>
<tr>
<td>COMP28512</td>
<td>Mobile Systems</td>
<td>10</td>
<td>Mobile Computing and Networks</td>
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**Level 2 - option pool 3**

From this option pool choose a maximum of 10 credits and a minimum of 0 credits.
### 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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<tbody>
<tr>
<td>BMAN10252</td>
<td>Fundamentals of Technological Change</td>
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<tr>
<td>BMAN10552</td>
<td>Fundamentals of Finance</td>
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<tr>
<td>BMAN10612</td>
<td>Business Economics</td>
<td>10</td>
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<tr>
<td>BMAN10632</td>
<td>Fundamentals of Accounting</td>
<td>10</td>
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<td>BMAN20242</td>
<td>Introduction to Corporate Finance &amp; Financial Instruments</td>
<td>10</td>
<td>None</td>
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<tr>
<td>BMAN20792</td>
<td>Technology Strategy &amp; Innovation 1</td>
<td>10</td>
<td>None</td>
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<tr>
<td>BMAN20832</td>
<td>Marketing</td>
<td>10</td>
<td>None</td>
</tr>
<tr>
<td>BMAN21012</td>
<td>Global Contexts of Business and Management</td>
<td>10</td>
<td>None</td>
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<tr>
<td>UCIL20022</td>
<td>Leadership in Action</td>
<td>10</td>
<td>None</td>
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<tr>
<td>UCIL20032</td>
<td>Leadership in Action Online Unit</td>
<td>10</td>
<td>None</td>
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<tr>
<td>UCIL20092</td>
<td>The Crisis of Nature: Issues in Environmental History</td>
<td>10</td>
<td>None</td>
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<tr>
<td>UCIL20102</td>
<td>Multilingual Manchester</td>
<td>10</td>
<td>None</td>
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<tr>
<td>UCIL20112</td>
<td>Mental Health</td>
<td>10</td>
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<td>UCIL20122</td>
<td>AI: Robot Overlord, Replacement or Colleague?</td>
<td>10</td>
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<td>UCIL20262</td>
<td>The Information Age</td>
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<tr>
<td>UCIL20882</td>
<td>An Introduction to Current Topics in Biology</td>
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<td>UCIL21002</td>
<td>Leadership of Learning</td>
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<td>UCIL21202</td>
<td>Bioethics: Contemporary Issues in Science and Biomedicine</td>
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<tr>
<td>UCIL21302</td>
<td>Communicating with Confidence</td>
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<tr>
<td>UCIL21802</td>
<td>Body, Health and Well-Being</td>
<td>10</td>
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<tr>
<td>UCIL22002</td>
<td>Essential Enterprise</td>
<td>10</td>
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<td>UCIL23302</td>
<td>Science and Civilisation in East Asia</td>
<td>10</td>
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<td>UCIL24002</td>
<td>The Art of Enterprise</td>
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<td>UCIL25002</td>
<td>The Digital Society</td>
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<td>UCIL29002</td>
<td>Physics &amp; The Grand Challenges of Today</td>
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<td>ULBS20012</td>
<td>British Sign Language</td>
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<td>ULBS20022</td>
<td>Introduction to British Sign Language - Part 2</td>
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### 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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<tbody>
<tr>
<td>ULAR10010</td>
<td>Beginners' Arabic</td>
<td>20</td>
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<tr>
<td>ULAR10020</td>
<td>Elementary Arabic</td>
<td>20</td>
<td>None</td>
</tr>
<tr>
<td>ULAR11010</td>
<td>Beginners' Arabic</td>
<td>20</td>
<td>None</td>
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<tr>
<td>ULAR20110</td>
<td>Intermediate Arabic</td>
<td>20</td>
<td>None</td>
</tr>
<tr>
<td>ULAR20210</td>
<td>Pre-intermediate Arabic</td>
<td>20</td>
<td>None</td>
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<tr>
<td>ULAR21110</td>
<td>Intermediate Arabic NC</td>
<td>20</td>
<td>None</td>
</tr>
<tr>
<td>ULCH10200</td>
<td>Beginners' Mandarin Chinese</td>
<td>20</td>
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<td>ULCH20020</td>
<td>Post-intermediate Mandarin Chinese</td>
<td>20</td>
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<tr>
<td>ULCH20110</td>
<td>Pre-intermediate Mandarin Chinese</td>
<td>20</td>
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### Level 3 options

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

From the optional units you must choose 40 credits from semester one and 40 credits from semester two.

#### Level 3 - compulsory units

All of the units in this pool are mandatory.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>COMP30040</td>
<td>3rd Year Project (Single Honours 40 Credits)</td>
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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.

<table>
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<tr>
<th>Code</th>
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<th>Credits</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>COMP32211</td>
<td>Implementing System-on-Chip Designs</td>
<td>10</td>
<td>System-on-Chip</td>
</tr>
<tr>
<td>COMP33511</td>
<td>User Experience</td>
<td>10</td>
<td>Interactive Systems Design</td>
</tr>
<tr>
<td>COMP33711</td>
<td>Agile Software Engineering</td>
<td>10</td>
<td>Agile Methods</td>
</tr>
<tr>
<td>COMP36111</td>
<td>Advanced Algorithms 1</td>
<td>10</td>
<td>Programming and Algorithms</td>
</tr>
<tr>
<td>COMP37111</td>
<td>Advanced Computer Graphics</td>
<td>10</td>
<td>Visual Computing</td>
</tr>
<tr>
<td>COMP38411</td>
<td>Cryptography and Network Security</td>
<td>10</td>
<td>Mobile Computing and Networks</td>
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</table>

#### Level 3 - option pool 2

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>COMP34412</td>
<td>Natural Language Systems</td>
<td>10</td>
<td>Natural Language, Representation and Reasoning</td>
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</table>

School of Computer Science
**Level 3 - option pool 3**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>COMP34120</td>
<td>AI and Games</td>
<td>20</td>
<td>Learning and Search in Artificial Intelligence</td>
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<tr>
<td>COMP38120</td>
<td>Documents, Services and Data on the Web</td>
<td>20</td>
<td>Web and Distributed Systems</td>
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</table>

**Level 3 - option pool 4**

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

<table>
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<th>Title</th>
<th>Credits</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>BMAN20242</td>
<td>Introduction to Corporate Finance &amp; Financial Instruments</td>
<td>10</td>
<td>None</td>
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<tr>
<td>BMAN20792</td>
<td>Technology Strategy &amp; Innovation 1</td>
<td>10</td>
<td>None</td>
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<tr>
<td>BMAN20821</td>
<td>New Product Development and Innovation</td>
<td>10</td>
<td>None</td>
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<tr>
<td>BMAN20832</td>
<td>Marketing</td>
<td>10</td>
<td>None</td>
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<tr>
<td>BMAN21061</td>
<td>Introduction to Management Information Systems</td>
<td>10</td>
<td>None</td>
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<tr>
<td>BMAN30010</td>
<td>Management of Knowledge and Innovation</td>
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<td>BMAN30021</td>
<td>Marketing</td>
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<td>BMAN30022</td>
<td>Strategy</td>
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<td>BMAN30042</td>
<td>Human Resource Management</td>
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<tr>
<td>BMAN30202</td>
<td>Cases in Digital Transformation</td>
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<td>BMAN31212</td>
<td>Investment Economics and Innovation</td>
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<tr>
<td>MCEL30001</td>
<td>Tools and Techniques for Enterprise</td>
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<tr>
<td>MCEL30002</td>
<td>Tools and Techniques for Enterprise</td>
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<tr>
<td>MCEL30022</td>
<td>Interdisciplinary Sustainable Development</td>
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<tr>
<td>MCEL3031</td>
<td>Enterprise Management for Computer Scientists</td>
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<tr>
<td>MCEL3032</td>
<td>Managing Finance in Enterprises for Computer Scientists</td>
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<tr>
<td>UCIL20001</td>
<td>Leadership of Learning</td>
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<td>Leadership in Action Online Unit</td>
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<tr>
<td>UCIL20092</td>
<td>The Crisis of Nature: Issues in Environmental History</td>
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<td>UCIL20102</td>
<td>Multilingual Manchester</td>
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<tr>
<td>UCIL20111</td>
<td>Core Themes in Animation and Visual Culture of Post War Japan</td>
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<tr>
<td>UCIL20112</td>
<td>Mental Health</td>
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<tr>
<td>UCIL20122</td>
<td>AI: Robot Overlord, Replacement or Colleague?</td>
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<tr>
<td>UCIL20211</td>
<td>Are we alone?</td>
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<td>UCIL20331</td>
<td>From Cholera to AIDS: A Global History of Epidemics</td>
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<td>UCIL21002</td>
<td>Leadership of Learning</td>
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<tr>
<td>UCIL21202</td>
<td>Bioethics: Contemporary Issues in Science and Biomedicine</td>
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<tr>
<td>UCIL21301</td>
<td>Communicating with Confidence</td>
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<tr>
<td>UCIL21302</td>
<td>Communicating with Confidence</td>
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<tr>
<td>UCIL21331</td>
<td>Becoming an inspirational individual</td>
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<tr>
<td>UCIL21802</td>
<td>Body, Health and Well-Being</td>
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<td>UCIL22001</td>
<td>Essential Enterprise</td>
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<td>Global Citizenship and Sustainability</td>
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<td>UCIL23302</td>
<td>Science and Civilisation in East Asia</td>
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<td>UCIL24141</td>
<td>Science, Technology and Democracy</td>
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<td>UCIL29002</td>
<td>Physics &amp; The Grand Challenges of Today</td>
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<td>UCIL30232</td>
<td>Health, Development and People</td>
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<td>Madness and Society in the Modern Age</td>
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<td>UCIL32011</td>
<td>From Sherlock Holmes to CSI</td>
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<td>UCIL33201</td>
<td>Climate Change and Society</td>
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<tr>
<td>ULAR20110</td>
<td>Intermediate Arabic</td>
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<td>ULAR20210</td>
<td>Pre-intermediate Arabic</td>
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<td>ULAR21110</td>
<td>Intermediate Arabic NC</td>
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<td>ULBS20011</td>
<td>Intro to British Sign Language S1</td>
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<td>ULBS20012</td>
<td>British Sign Language</td>
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<td>ULCH20020</td>
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<td>Post-intermediate Chinese - first semester</td>
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<td>ULCH20110</td>
<td>Pre-intermediate Mandarin Chinese</td>
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<td>Advanced Mandarin Chinese</td>
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<td>Intermediate Dutch</td>
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<td>ULFR20010</td>
<td>Intermediate French</td>
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<td>ULFR20020</td>
<td>Post-intermediate French</td>
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