# Artificial Intelligence wIE BSc (Hons) 2018-2019

## Summary

<table>
<thead>
<tr>
<th>UCAS code</th>
<th>Award</th>
<th>Title</th>
<th>Duration</th>
<th>Mode</th>
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<tr>
<td>G701</td>
<td>BSc</td>
<td>Artificial Intelligence wIE BSc (Hons)</td>
<td>4 years</td>
<td>FT + Placement year</td>
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<table>
<thead>
<tr>
<th>Schools</th>
<th>Computer Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>Engineering and Physical Sciences</td>
</tr>
<tr>
<td>Awarding Institution</td>
<td>University of Manchester</td>
</tr>
<tr>
<td>Programme Accreditation</td>
<td>BCS, IET</td>
</tr>
<tr>
<td>Relevant QAA benchmark(s)</td>
<td>Computing</td>
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</table>
Aims and intended learning outcomes

One of the challenges in computing is to make computers think, or be intelligent, so that they can solve new problems, or cope with the unknown. Current achievements include image and voice recognition, and NASA’s Mars Rovers.

By combining the study of AI and traditional computing techniques with an understanding from psychology of how humans learn, our Artificial Intelligence programmes prepare you for a career applying computing in challenging applications. AI-specific topics covered include the key techniques of machine learning, which are built upon knowledge representation and reasoning. These are used in both simple learning, where solutions are remembered and reused, and in the generation of a solution from several related cases.

Our courses give you the opportunity to study these techniques in the context of general computing, and their application in areas such as computer vision, machine learning and natural language processing.

Our programmes aim to:

1) enable graduates to exhibit a high level of practical and theoretical skills over a broad range of Computer Science together with a knowledge of currently available techniques and technologies.
2) explore the principles that support developments in a rapidly changing subject.
3) provide opportunities for students to understand the wide range of research challenges facing Computer Science, as well as the breadth and depth of research undertaken in this top-rated school, so they are prepared to embark on research here or elsewhere.
4) develop competent professionals able to play a leading part in many different commercial, industrial and academic activities and adapt rapidly to changing technology.
5) meet industry demand for high calibre graduates who will take a lead in continuing technological change.
6) prepare students for the social, organisational and professional context in which they will be working.
7) meet the educational requirements of the Engineering Council thus enabling graduates to progress to professional membership of the BCS and IET and attain the highest professional status of Chartered Engineer.
8) In addition, the with Industrial Experience programmes aim to: give extensive practical experience of an industrial or business environment where students are able to apply and develop their skills, both technical and personal.
9) In addition, the MEng programmes aim to: prepare high fliers for professional practice in Computer Science by enhanced depth and breadth of study together with increased emphasis on industrial relevance through industrially related group projects.

Intended learning outcomes

Knowledge & understanding

A1 Know and understand the essential mathematics relevant to computer science.
A2 Understand and apply a wide range of principles and tools available to the software engineer, such as design methodologies, choice of algorithm, language, software libraries and user interface techniques.
A3 Demonstrate a grasp of the principles of computer systems, including architecture, networks and communication.
A4 Recognise and appreciate the professional and ethical responsibilities of the practising computer professional, including understanding the need for quality.
A5 Know and understand the principles and techniques of a number of application areas informed by the research directions of the subject, such as artificial intelligence, databases and computer graphics.
A6 Apply their knowledge of computing in a commercial or industrial context.
A7 Show a critical understanding of the broad context within which Computer Science resides, including issues such as quality, reliability, enterprise, employment law, accounting and health and safety.
A8 Have a comprehensive knowledge and critical awareness of selected specialist fields at the forefront of computer science, studied at masters level.

Intellectual (thinking) skills
B1 Solve a wide range of problems related to the analysis, design and construction of computer systems.

B2 Design and implement a software or hardware system of significant size

B3 Identify a range of solutions and critically evaluate and justify proposed design solutions

B4 Solve computer science problems with pressing commercial or industrial constraints

B5 Generate an innovative design to solve a problem containing a range of commercial and industrial constraints

**Practical skills**

C1 Plan and undertake a major individual project

C2 Prepare and deliver coherent and structured verbal and written technical reports

C3 Give technical presentations suitable for the time, place and audience

C4 Use the scientific literature effectively and make discriminating use of Web resources

C5 Design, write and debug computer programs in appropriate languages

C6 Use appropriate computer-based design support tools

C7 Apply computer science skills in a commercial or industrial environment

C8 Demonstrate initiative taking, innovation and self-management in an industrially related group project

C9 Integrate previously acquired skills and apply them to new, demanding situations

**Transferable skills**

D1 Display an integrated approach to the deployment of communication skills

D2 Use IT skills and display mature computer literacy

D3 Work effectively with and for others

D4 Strike the balance between self-reliance and seeking help when necessary in new situations

D5 Display personal responsibility by working to multiple deadlines in complex activities

D6 Employ discrete and continuous mathematical skills as appropriate

D7 Demonstrate significantly enhanced group working abilities

D8 Further develop career plans and personal objectives

D9 Communicate effectively with non-specialist as well as computer scientist professionals at a range of levels

D10 Undertake a range of technical roles within a team and be able to display leadership
Teaching, learning and assessment methods

Learning and Teaching on all our programmes aims to combine an understanding of fundamental CS principles, development of strong practical skills and the group-working, learning and communication skills that are essential for any computing professional.

Course units which involve practical elements all have associated laboratory exercises, usually in timetabled sessions with staff and demonstrator support. Most labs operate a system of face-to-face marking in the lab so that students receive immediate feedback on their work. Units without labs all have regular coursework exercises to support skills development and feedback.

Most units are lecture based, with lab or coursework exercises used to reinforce and enhance knowledge and skills first encountered in lectures. The first year team project deviates significantly from this model and takes an Enquiry Based Learning approach. This unit aims to encourage students to be more actively engaged with, and responsible for, their own learning, to develop skills in problem solving, communication, independent learning, and group work, and to signal the importance we attach to independent learning. This approach is followed up in the second year with the workshop based approach used in the compulsory Software Engineering unit, which also contains a major group working component.

The choice of units offered to students on our programmes is very broad, but they also require depth in particular subject areas. This is achieved using the notion of Themes. A theme is a group of related second and third year course units which form a coherent whole; usually one second year and two third year units. All single honours students are required to complete at least two themes; those on the Computer Science programme can choose any pair of themes, but those on specialist programmes must complete at least two themes associated with their specialism. It is the choice of these themes that characterises the specialist programmes. The Programme Structure section below indicates the Themes for this group of programmes and the tables in that section show the Theme for each course unit.

All students undertake an individual 3rd year project, supervised by a member of academic task, which usually involves the development of significant software or hardware product. Assessment of this unit involves presentations of plans and results and a major written report.

Assessment in almost all units is a combination of lab/coursework and examination.

Learning, Teaching and Assessment of intended learning outcomes

Knowledge and Understanding

Learning and Teaching Processes | Assessment
---|---
Lectures (A1, A2, A3, A4, A5, A6, A7) | Unseen written examinations (A1, A2, A3, A4)
Laboratory sessions (A2, A3) | Marked tutorial exercises (A1, A2, A3, A4)
Personal tutorials (A1, A2, A3, A4, A7) | Laboratory reports (A2, A3)
Problem solving classes (A1, A2, A3, A4) | Project reports (individual and group) (A3, A4, A5,A6, A7)
Problem-based learning (A2, A3, A4, A5, A6, A7) | Oral presentations (individual and group) (A3, A4, A5, A6, A7)
Projects (A3, A4, A5, A6, A7) |  
Industrial seminars (A4, A5, A6, A7) |  

Intellectual Skills

Learning and Teaching Processes | Assessment
---|---
Lectures (B1, B2, B4, B5) | Unseen written examinations (B1, B2, B4)
Laboratory sessions (B1, B2) | Marked tutorial exercises (B1, B2)
Personal tutorials (B1, B2, B4) | Laboratory reports (B1, B2)
Problem solving classes (B1, B2, B4) | Project reports (individual and group) (B1, B2, B3,B4, B5)
Problem-based learning (B1, B2, B4) | Oral presentations (individual and group) (B1, B2, B3, B4, B5)
Projects (B1, B2, B3, B4, B5) |  

Practical Skills

Learning and Teaching Processes | Assessment
---|---
Lectures (C4, C6) | Laboratory reports (C1, C2, C3, C4, C5, C6, C7)
Laboratory sessions (C1, C2, C3, C4, C5, C6, C7) | Project reports (individual and group) (C3, C4, C5, C6)
Projects (C3, C4, C5, C6,C9) | Oral presentations (individual and group) (C6, C8,C9)
Transferable skills

<table>
<thead>
<tr>
<th>Learning and Teaching Processes</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures (D3, D4, D5, D7)</td>
<td>Laboratory reports (D1, D3, D5, D6)</td>
</tr>
<tr>
<td>Laboratory sessions (D1, D3, D5, D6)</td>
<td>Essays (D2, D3)</td>
</tr>
<tr>
<td>Personal tutorials (D1, D2, D3, D4, D7)</td>
<td>Project reports (individual and group) (D1, D2, D3, D4, D5, D6, D7)</td>
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<tr>
<td>Problem solving classes (D4)</td>
<td>Oral presentations (individual and group) (D1, D3, D6, D7, D8)</td>
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<tr>
<td>Problem-based learning (D1, D2, D3, D4, D5, D6)</td>
<td>Industrial placement reports (D8)</td>
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<tr>
<td>Projects (D1, D2, D3, D4, D5, D6, D7)</td>
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<tr>
<td>Industrial placement (D8)</td>
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</table>

School of Computer Science
Programme structure

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>
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<tr>
<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>
<tr>
<td>COMP16121</td>
<td>Object Oriented Programming with Java 1</td>
<td>20</td>
</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>
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</table>

Level 2 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 at least 20 credits of optional COMP course units - maximum 10 from "option pool 1" below and of maximum 30 from "option pool 2" below. The minimum number of credits selected from both "option pool 1" and "option pool 2" is 20, the maximum is 40 credits.
You can also choose up to 20 credits of optional course units that are external to the Department. You can choose any Level 1 or 2 options for which you meet any pre-requisites and fits with your timetable, these may be:

- Business and Management course units: https://ughandbook.portals.mbs.ac.uk/Non-AllianceMBSstudents.aspx
- University College course units
- Language course units: https://www.languagecentre.manchester.ac.uk/learn-a-language/courses-for-students/

Please note: to enrol on some external course units (such as Language) will require permission from the associated School/Department.

To select any external course units outside of the list given above will require permission from the 2nd Year Tutor, Duncan Hull.

You must ensure your credits are balanced over the academic year (60 credits in each semester).
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.

<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>
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<td>Web and Distributed Systems</td>
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<tr>
<td>COMP23311</td>
<td>Software Engineering 1</td>
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<td>Agile Methods</td>
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<tr>
<td>COMP23412</td>
<td>Software Engineering 2</td>
<td>10</td>
<td>Agile Methods</td>
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<tr>
<td>COMP24111</td>
<td>Machine Learning and Optimisation</td>
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<td>Learning and Search in Artificial Intelligence</td>
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<tr>
<td>COMP24412</td>
<td>Symbolic AI</td>
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<td>Natural Language, Representation and Reasoning</td>
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<tr>
<td>COMP25111</td>
<td>Operating Systems</td>
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<td>Computer Architecture</td>
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<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 10 credits and a minimum of 0 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMP21111</td>
<td>Logic and Modelling</td>
<td>10</td>
<td>Rigorous Development</td>
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<tr>
<td>COMP22111</td>
<td>Processor Microarchitecture</td>
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<td>System-on-Chip</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.

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>COMP2712</td>
<td>Microcontrollers</td>
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<tr>
<td>COMP25212</td>
<td>System Architecture</td>
<td>10</td>
<td>Computer Architecture</td>
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<tr>
<td>COMP27112</td>
<td>Computer Graphics and Image Processing</td>
<td>10</td>
<td>Visual Computing</td>
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<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.

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<tbody>
<tr>
<td>BMAN10011</td>
<td>Fundamentals of Management</td>
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<td>BMAN10621B</td>
<td>Fundamentals of Financial Reporting</td>
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<tr>
<td>BMAN20821</td>
<td>New Product Development and Innovation</td>
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<td>BMAN21061</td>
<td>Introduction to Management Information Systems</td>
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<tr>
<td>UCIL10201</td>
<td>Language, Mind and Brain</td>
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<td>UCIL10221</td>
<td>Science and the Modern World</td>
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<td>UCIL10801</td>
<td>Leadership of Learning</td>
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<td>Leadership in Action</td>
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<td>UCIL10031</td>
<td>Leadership in Action Online Unit</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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<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>UCIL21301</td>
<td>Communicating with Confidence</td>
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<td>None</td>
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<td>UCIL21331</td>
<td>Becoming an inspirational individual</td>
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<tr>
<td>UCIL22001</td>
<td>Essential Enterprise</td>
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<td>UCIL22901</td>
<td>Global Citizenship and Sustainability</td>
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<td>UCIL24141</td>
<td>Science, Technology and Democracy</td>
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<td>UBLS20011</td>
<td>Intro to British Sign Language S1</td>
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<td>ULCHE20021</td>
<td>Post-intermediate Chinese - first semester</td>
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<td>ULCHE10021</td>
<td>Introductory German</td>
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<td>ULIT10001</td>
<td>Beginners' Italian</td>
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<tr>
<td>ULSP10021</td>
<td>Introductory Spanish</td>
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### Level 2 - Option Pool 4

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<td>BMAN10252</td>
<td>Fundamentals of Technological Change</td>
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<td>BMAN10552</td>
<td>Fundamentals of Finance</td>
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<td>BMAN10612</td>
<td>Business Economics</td>
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<td>BMAN10632</td>
<td>Fundamentals of Accounting</td>
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<td>BMAN20242</td>
<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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<tr>
<td>BMAN20832</td>
<td>Marketing</td>
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<td>BMAN21012</td>
<td>Global Contexts of Business and Management</td>
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<td>UCIL20022</td>
<td>Leadership in Action</td>
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<td>Leadership in Action Online Unit</td>
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<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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<td>UCIL20112</td>
<td>Understanding Mental Health</td>
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<td>UCIL20112</td>
<td>Understanding Mental Health</td>
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<td>UCIL20122</td>
<td>AI: Robot Overlord, Replacement or Colleague?</td>
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<tr>
<td>UCIL20282</td>
<td>The Information Age</td>
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<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>
<td>10</td>
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<tr>
<td>UCIL21302</td>
<td>Communicating with Confidence</td>
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<td>None</td>
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<td>UCIL21802</td>
<td>Body, Health and Well-Being</td>
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<td>None</td>
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<td>UCIL22802</td>
<td>Essential Enterprise</td>
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<td>None</td>
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<td>UCIL23302</td>
<td>Science and Civilisation in East Asia</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>ULAR10032</td>
<td>Introduction to Spoken Arabic</td>
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<td>ULBS20012</td>
<td>British Sign Language</td>
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Level 2 - option pool 5
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<tbody>
<tr>
<td>ULAR10010</td>
<td>Beginners' Arabic</td>
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<td>Elementary Arabic</td>
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<tr>
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Level 3 options
You have 40 credits of compulsory course units listed in the table "compulsory units" below.

Out of the remaining 80 credits of free choice:

You must choose at least 60 credits of optional COMP course units from option pool 1 - 3 below. Maximum 40 from "option pool 1", maximum 40 from "option pool 2" and maximum 20 from "option pool 3". The minimum number of credits of optional COMP course units selected is 60 and the maximum is 80.

You can also choose up to 20 credits of optional course units that are external to the Department. You can choose any Level
2 or 3 options for which you meet any pre-requisites and fits with your timetable, these may be:

- Business and Management course units: https://ughandbook.portals.mbs.ac.uk/Non-AllianceMBSstudents.aspx
- University College course units
- Language course units: https://www.languagecentre.manchester.ac.uk/learn-a-language/courses-for-students/

Please note: to enrol on some external course units (such as Language) will require permission from the associated School/Department.

To select any external course units outside of the list given above will require permission from the 2nd Year Tutor, Tim Morris.

You must ensure your credits are balanced over the academic year (60 credits in each semester).

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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<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.

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<tr>
<td>COMP32211</td>
<td>Implementing System-on-Chip Designs</td>
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<td>System-on-Chip</td>
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<td>COMP33511</td>
<td>User Experience</td>
<td>10</td>
<td>Interactive Systems Design</td>
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<td>COMP33711</td>
<td>Agile Software Engineering</td>
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<td>Agile Methods</td>
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<tr>
<td>COMP36111</td>
<td>Advanced Algorithms 1</td>
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<td>Programming and Algorithms</td>
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<td>COMP37111</td>
<td>Advanced Computer Graphics</td>
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<td>Visual Computing</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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<td>Natural Language Systems</td>
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<td>COMP35112</td>
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<td>Advanced Algorithms 2</td>
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<td>The Internet of Things: Architectures and Applications</td>
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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>COMP38120</td>
<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>Technology Strategy &amp; Innovation I</td>
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<td>New Product Development and Innovation</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>Introduction to Management Information Systems</td>
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<td>Management of Knowledge and Innovation</td>
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<td>Human Resource Management</td>
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UCIL20001 Leadership of Learning
UCIL20021 Leadership in Action
UCIL20022 Leadership in Action
UCIL20031 Leadership in Action Online Unit
UCIL20032 Leadership in Action Online Unit
UCIL20092 The Crisis of Nature: Issues in Environmental History
UCIL20102 Multilingual Manchester
UCIL20111 Core Themes in Animation and Visual Culture of Film and TV
UCIL20121 Understanding Mental Health
UCIL20122 Are We Alone?
UCIL20201 Science and the Modern World
UCIL20211 Are We Alone?
UCIL20282 The Information Age
UCIL20331 From Cholera to AIDS: A Global History of Epidemics
UCIL20332 From Cholera to AIDS: A Global History of Epidemics
UCIL20882 An Introduction to Current Topics in Biology
UCIL21002 Leadership of Learning
UCIL21011 Core Themes in Animation and Visual Culture of Film and TV
UCIL21012 Core Themes in Animation and Visual Culture of Film and TV
UCIL21021 Multilingual Manchester
UCIL21031 Multilingual Manchester
UCIL21101 Communicating with Confidence
UCIL21102 Communicating with Confidence
UCIL21103 Becoming an inspirational individual
UCIL21104 Body, Health and Well-being
UCIL21201 Essential Enterprise
UCIL21202 Essential Enterprise
UCIL21203 Essential Enterprise
UCIL21204 Global Citizenship and Sustainability
UCIL21301 System and Civilization in East Asia
UCIL21401 The Art of Empires
UCIL21411 Science, Technology and Democracy
UCIL21501 The Digital Society
UCIL21601 The Business Age
UCIL21701 From Sherlock Holmes to CSI
UCIL21801 Climate Change and Society
ULAR10010 Beginners' Arabic
ULAR10020 Elementary Arabic
ULAR10032 Introduction to Spoken Arabic
ULAR11010 Beginners' Arabic
ULAR11020 Elementary Arabic
ULAR20110 Intermediate Arabic
ULAR20210 Pre-intermediate Arabic
ULAR20310 Intermediate Arabic - First semester
ULAR20320 Pre-intermediate Arabic First Semester
ULAR20330 Advanced Intermediate Arabic
ULAR20401 Pre-intermediate Chinese
ULAR20410 Intermediate Chinese
ULAR20420 Post-intermediate Chinese
ULAR20430 Post-intermediate Chinese - Enhanced
ULAR30030 Advanced Mandarin Chinese
ULAR30040 Intermediate Chinese
ULAR30050 Advanced Mandarin Chinese
ULAR30060 Advanced Mandarin Chinese
ULAR30070 Intermediate Chinese
ULAR30080 Intermediate Chinese (A1.1+)
ULAR30090 Advanced Mandarin Chinese
ULAR30100 Beginner Dutch
ULAR30110 Intermediate Dutch
ULAR30120 Intermediate Dutch
ULAR30130 Beginner French
ULAR30140 Beginner French
ULAR30150 Intermediate French
ULAR30160 Pre-intermediate French
ULAR30170 Pre-intermediate French - Enhanced
ULAR30180 Pre-intermediate French
ULAR30190 Pre-intermediate French
ULAR30200 Pre-intermediate French
ULAR30210 Pre-intermediate French
ULAR30220 Pre-intermediate French
ULAR30230 Beginner German
ULAR30240 Beginner German
ULAR30250 Pre-intermediate German
ULAR30260 Pre-intermediate German
ULAR30270 Pre-intermediate German (A1.1+)
ULAR30280 Pre-intermediate German (A1.1+)
ULAR30290 Pre-intermediate German (A1.1+)
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Mechanisms for programme revision

Course units are reviewed annually by the Undergraduate Committee, as part of the Annual Review process, taking into account the results and comments from Course Unit Evaluation Questionnaires. Input is also received from the Teaching Assessment Panel, which has a responsibility for monitoring teaching quality in the School.

Programmes have been reviewed regularly by groups created specifically for this purpose; the last major review resulted in a new programme portfolio design which started in the first year in 2008-9. The responsibility for leadership of programme review is now in the hands of the Director of Teaching Strategy (currently Dr Steve Pettifer) who chairs a School Teaching Strategy Committee.