



# School of Computer Science - The University of Manchester Programme Options

# Computer Science BSc (Hons) options 2017-2018

<strong>You will be automatically enrolled on these nine course units which total <u>120 credits</u>. </strong>

#### Level 1 - compulsory units

All of the units in this pool are mandatory.

Code	Title	Credits
COMP10120	First Year Team Project	20
COMP11120	Mathematical Techniques for Computer Science	20
COMP11212	Fundamentals of Computation	10
COMP12111	Fundamentals of Computer Engineering	10
COMP14112	Fundamentals of Artificial Intelligence	10
COMP15111	Fundamentals of Computer Architecture	10
COMP16121	Object Oriented Programming with Java 1	20
COMP16212	Object Oriented Programming with Java 2	10
COMP18112	Fundamentals of Distributed Systems	10

### **Level 2 options**

<strong>You will be automatically enrolled on four course units which total <u>60 credits</u>.

For the remaining <u>60 credits</u>:

You need to select a minimum of two course units totalling <u>20 credits</u> or a maximum of three course units totalling <u>30 credits</u> from Option Pool 1.

You need to select a minimum of two course units totalling <u>>20 credits</u> or a maximum of three course units totalling <u>>30 credits</u> from Option Pool 2.

You may choose a maximum of <u>10 credits</u> of external units from External Option Pool 1 and a maximum of <u>10 credits</u> of external units from External Option Pool 2. </strong>

External option units can be any Level 1 or 2 options, provided that they fit with your timetable and you meet all pre-requisites, these may be:

- Business and Management course units: https://www.ambs.ughandbook.manchester.ac.uk/non-ambs-students/
- University College course units
- Language course units: https://www.alc.manchester.ac.uk/study/university-language-centre-leap-courses/course-information/leap-courses/courses-fo r-all/

- HSTM20282 Information Visions https://www.manchester.ac.uk/study/undergraduate/courses/2021/00485/bsc-biology-with-science-and-society/course-details/HSTM20282#course-unit-details

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 <a href="/ugt/index.php#tutors">2nd Year Tutor</a>.

<strong>If you take a <u>20 credit</u> whole year course unit you are not permitted to drop this unit when course unit selection reopens at the start of semester 2.

You must ensure your credits are balanced over the academic year (<u>60 credits</u> in each semester). </strong>

#### Level 2 - compulsory units

All of the units in this pool are mandatory.

Code	Title	Credits	Theme
COMP23111	Fundamentals of Databases	10	Web and Distributed Systems
COMP23311	Software Engineering 1	10	Agile Methods
COMP23412	Software Engineering 2	10	Software Engineering
COMP25111	Operating Systems	10	Computer Architecture
COMP26120	Algorithms and Imperative Programming	20	Computer Languages

### Level 2 - option pool 1

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

Code	Title	Credits	Theme
COMP21111	Logic and Modelling	10	Rigorous Development
COMP22111	Processor Microarchitecture	10	System-on-Chip
COMP24111	Machine Learning and Optimisation	10	Learning and Search in Artificial Intelligence
COMP28411	Computer Networks	10	Mobile Computing and Networks

### Level 2 - option pool 2

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

Code	Title	Credits	Theme
COMP22712	Microcontrollers	10	None
COMP24412	Symbolic AI	10	Natural Language, Representation and Reasoning
COMP25212	System Architecture	10	Computer Architecture
COMP27112	Computer Graphics and Image Processing	10	Visual Computing
COMP28112	Distributed Computing	10	Web and Distributed Systems
COMP28512	Mobile Systems	10	Mobile Computing and Networks

## Level 2 - option pool 3

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

Code	Title	Credits	Theme
BMAN10011	Fundamentals of Management	10	None
BMAN10621B	Fundamentals of Financial Reporting	10	None
BMAN20811	Managing Business Operations	10	None
BMAN20821	New Product Development and Innovation	10	None
BMAN21061	Introduction to Management Information Systems	10	None
UCIL10221	Science and the Modern World	10	None
UCIL20001	Leadership of Learning	10	None
UCIL20021	Leadership in Action	10	None
UCIL20031	Leadership in Action Online Unit	10	None
UCIL20181	Science, the Media and the Public	10	None
UCIL20331	From Cholera to Aids: A Global History of Epidemics	10	None
UCIL21301	Communicating with Confidence	10	None
UCIL22301	Curating Culture	10	None
UCIL22501	Global Citizenship and Sustainability	10	None

# Level 2 - option pool 4

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

Code	Title	Credits	Theme
BMAN10252	Fundamentals of Technological Change	10	None
BMAN10552	Fundamentals of Finance	10	None
BMAN10612	Business Economics	10	None
BMAN10632	Fundamentals of Accounting	10	None
BMAN20242	Introduction to Corporate Finance & Financial Instruments	10	None
BMAN20792	Technology Strategy & Innovation 1	10	None
BMAN20832	Marketing	10	None
BMAN20842	Organisations and Emploment	10	None
BMAN21012	Global Contexts of Business and Management	10	None
UCIL20022	Leadership in Action	10	None
UCIL20032	Leadership in Action Online Unit	10	None
UCIL20092	The Crisis of Nature: Issues in Environmental History	10	None
UCIL20102	Multilingual Manchester	10	None
UCIL20282	The Information Age	10	None
UCIL20882	An Introduction to Current Topics in Biology	10	None
UCIL21002	Leadership of Learning	10	None
UCIL21102	Diverse Britain in a Globalising World	10	None
UCIL21202	Bioethics: Contemporary Issues in Science and Biomedicine	10	None
UCIL21302	Communicating with Confidence	10	None
UCIL21402	Innovation for a Sustainable Society	10	None
UCIL21802	Body, Health and Well-Being	10	None
UCIL21902	Humanitarian Challenges in an Unequal World	10	None

UCIL24002	The Art of Enterprise	10	None
UCIL25002	The Digital Society	10	None
UCIL29002	Physics & The Grand Challenges of Today	10	None

### Level 3 options

<strong>You will be automatically enrolled on the Third Year Project course unit which totals <u>40 credits</u>.

For the remaining <u>80 credits</u>:

You need to select a minimum of three course units totalling <u>30 credits</u> or a maximum of four course units totalling <u>40 credits</u> from Option Pool 1.

You need to select a minimum of three course units totalling <u>30 credits</u> or a maximum of four course units totalling <u>40 credits</u> from Option Pool 2.

You may choose a maximum of <u>10 credits</u> of external units from External Option Pool 1 and a maximum of <u>10 credits</u> of external units from External Option Pool 2. </strong>

External option units can be any Level 2 or 3 options, provided that they fit with your timetable and you meet all pre-requisites, these may be:

- Business and Management course units: https://www.ambs.ughandbook.manchester.ac.uk/non-ambs-students/
- University College course units
- Language course units: https://www.alc.manchester.ac.uk/study/university-language-centre-leap-courses/course-information/leap-courses/courses-fo r-all/

- HSTM20282 Information Visions https://www.manchester.ac.uk/study/undergraduate/courses/2021/00485/bsc-biology-with-science-and-society/course-details/HSTM20282#course-unit-details

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 <a href="/ugt/index.php#tutors">3rd Year Tutor</a>.

<strong>If you take a <u>20 credit</u> whole year course unit you are not permitted to drop this unit when course unit selection reopens at the start of semester 2. This includes the option BMAN30010.

You must ensure your credits are balanced over the academic year (<u>60 credits</u> in each semester).</strong>

#### Level 3 - compulsory units

All of the units in this pool are mandatory.

Code	Title	Credits	Theme
COMP30040	3rd Year Project (Single Honours 40 Credits)	40	None

### Level 3 - option pool 1

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

Code	Title	Credits	Theme
COMP31111	Verified Development	10	Rigorous Development
COMP32211	Implementing System-on-Chip Designs	10	System-on-Chip
COMP33511	User Experience	10	Interactive Systems Design
COMP33711	Agile Software Engineering	10	Agile Methods
COMP36111	Advanced Algorithms 1	10	Programming and Algorithms
COMP37111	Advanced Computer Graphics	10	Visual Computing
COMP38411	Cryptography and Network Security	10	Mobile Computing and Networks

#### Level 3 - option pool 2

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

Code	Title	Credits	Theme
COMP33812	Software Evolution	10	Agile Methods
COMP34412	Natural Language Systems	10	Natural Language, Representation and Reasoning
COMP35112	Chip Multiprocessors	10	Computer Architecture

COMP36212	Advanced Algorithms 2	10	Programming and Algorithms
COMP36512	Compilers	10	Computer Languages
COMP37212	Computer Vision	10	Visual Computing
COMP32412	The Internet of Things: Architectures and Applications	10	Web and Distributed Systems

# Level 3 - option pool 3

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

Code	Title	Credits	Theme
COMP34120	AI and Games	20	Learning and Search in Artificial Intelligence
COMP38120	Documents, Services and Data on the Web	20	Web and Distributed Systems

# Level 3 - option pool 4

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

BMAN20811   Management and Technology	Code	Title	Credits	Theme
BMAN30021   Marketing	BMAN20811	Managing Business Operations	10	
BMAN30022   Strategy	BMAN30010		20	None
BMAN30042         Human Resource Management         10         None           BMAN30202         Cases in Digital Transformation         10         None           BMAN30991         Project Organisations: Management & Strategy         10         None           BMAN30991         The International Management of Knowledge & Technology         10         None           BMAN31212         Investment Economics and Innovation         10         None           BMAN31752         Consumers and Markets         10         None           BMAN31842         People Management and Change         10         None           MCEL30001         Tools and Techniques for Enterprise         10         None           MCEL30020         Tools and Techniques for Enterprise         10         None           MCEL300301         Enterprise Management for Computer Scientists         10         None           MCEL30032         Interdisciplinary Sustainable Development         10         None           UCIL20001         Leadership of Learning         10         None           UCIL20001         Leadership of Learning         10         None           UCIL20012         Leadership in Action         10         None           UCIL20021         Leadership in Action Online Unit         10<	BMAN30021	Marketing	10	None
BMAN30202         Cases in Digital Transformation         10         None           BMAN30982         Project Organisations: Management & Strategy         10         None           BMAN30991         The International Management of Knowledge & Technology         10         None           BMAN31212         Investment Economics and Innovation         10         None           BMAN31821         Consumers and Markets         10         None           BMAN31842         People Management and Change         10         None           MCEL30001         Tools and Techniques for Enterprise         10         None           MCEL30022         Interdisciplinary Sustainable Development         10         None           MCEL30031         Enterprise Management for Computer Scientists         10         None           MCEL30021         Leadership of Learning         10         None           UCIL2001         Leadership of Learning         10         None           UCIL20021         Leadership in Action         10         None           UCIL20022         Leadership in Action Online Unit         10         None           UCIL20031         Leadership in Action Online Unit         10         None           UCIL20032         Leadership in Action Online Unit         1	BMAN30022	Strategy	10	None
BMAN30982 Project Organisations: Management & Strategy 10 None BMAN30991 The International Management of Knowledge & Technology 10 None BMAN31212 Investment Economics and Innovation 10 None BMAN31732 Consumers and Markets 10 None BMAN31732 People Management and Change 10 None MCEL30001 Tools and Techniques for Enterprise 10 None MCEL30002 Tools and Techniques for Enterprise 10 None MCEL30022 Interdisciplinary Sustainable Development 10 None MCEL30031 Enterprise Management for Computer Scientists 10 None MCEL30032 Managing Finance in Enterprises for Computer Scientists 10 None UCIL20001 Leadership of Learning 10 None UCIL2001 Leadership in Action 10 None UCIL20021 Leadership in Action 10 None UCIL20022 Leadership in Action 10 None UCIL20032 Leadership in Action 10 None UCIL20032 Leadership in Action Online Unit 10 None UCIL20032 Leadership in Action Online Unit 10 None UCIL20032 Multilingual Manchester 10 None UCIL2004 Multilingual Manchester 10 None UCIL2005 The Crisis of Nature: Issues in Environmental History 10 None UCIL20082 The Information Age 10 None UCIL20082 An Introduction to Current Topics in Biology 10 None UCIL2082 An Introduction to Current Topics in Biology 10 None UCIL20082 Diverse Britain in a Globalising World 10 None UCIL21002 Diverse Britain in a Globalising World 10 None UCIL21002 Communicating with Confidence 10 None UCIL21012 Diverse Britain in a Globalising World 10 None UCIL21012 Communicating with Confidence 10 None UCIL21012 Humanitarian Challenges in an Unequal World 10 None UCIL21012 Humanitarian Challenges in an Unequal World 10 None UCIL21012 Humanitarian Challenges in an Unequal World 10 None UCIL21012 Humanitarian Challenges in an Unequal World 10 None UCIL21012 Humanitarian Challenges in an Unequal World 10 None UCIL21012 The Art of Enterprise 10 None UCIL21012 The Art of Enterprise 10 None UCIL22010 The Art of Enterprise 10 None UCIL22010 The Art of Enterprise 10 None	BMAN30042	Human Resource Management	10	None
BMAN31912   The International Management of Knowledge & Technology   10   None   BMAN31212   Investment Economics and Innovation   10   None   10	BMAN30202	Cases in Digital Transformation	10	None
BMAN31912   The International Management of Knowledge & Technology   10   None   BMAN31212   Investment Economics and Innovation   10   None   SMAN31752   Consumers and Markets   10   None   SMAN31752   Consumers and Markets   10   None   SMAN31842   People Management and Change   10   None   MCEL30001   Tools and Techniques for Enterprise   10   None   MCEL30002   Tools and Techniques for Enterprise   10   None   MCEL30002   Interdisciplinary Sustainable Development   10   None   MCEL30032   Interdisciplinary Sustainable Development   10   None   MCEL30032   Interdisciplinary Sustainable Development   10   None   MCEL300332   Managing Finance in Enterprises for Computer Scientists   10   None   UCIL20001   Leadership of Learning   10   None   UCIL20001   Leadership in Action   10   None   UCIL20021   Leadership in Action   10   None   UCIL20031   Leadership in Action   10   None   UCIL20032   Leadership in Action Online Unit   10   None   UCIL20032   Leadership in Action Online Unit   10   None   UCIL20032   The Crisis of Nature: Issues in Environmental History   10   None   UCIL20102   The Crisis of Nature: Issues in Environmental History   10   None   UCIL20103   The Crisis of Nature: Issues in Environmental History   10   None   UCIL20131   Science, the Media and the Public   10   None   UCIL20331   The Information Age   10   None   UCIL20331   The Information Age   10   None   UCIL20331   From Cholera to Aids: A Global History of Epidemics   10   None   UCIL20032   Leadership of Learning   10   None   UCIL21002   Leadership of Learning   10   None   UCIL21002   Diverse Britain in a Globalising World   10   None   UCIL21002   Diverse Britain in a Globalising World   10   None   UCIL21301   Communicating with Confidence   10   None   UCIL21402   Innovation for a Sustainable Society   10   None   UCIL21402   Body, Health and Well-Being   10   None   UCIL21402   Humanitarian Challenges in an Unequal World   10   None   UCIL23001   UCIL23001   UCIA2002   The Art of Enterprise   10   None   UCIL23001   UCIL230	BMAN30982	Project Organisations: Management & Strategy	10	None
BMAN31752         Consumers and Markets         10         None           BMAN31842         People Management and Change         10         None           MCEL30002         Tools and Techniques for Enterprise         10         None           MCEL30002         Tools and Techniques for Enterprise         10         None           MCEL30021         Interdisciplinary Sustainable Development         10         None           MCEL30031         Enterprise Management for Computer Scientists         10         None           MCEL30032         Managing Finance in Enterprises for Computer Scientists         10         None           UCIL20001         Leadership of Learning         10         None           UCIL20021         Leadership in Action         10         None           UCIL20021         Leadership in Action         10         None           UCIL20021         Leadership in Action Online Unit         10         None           UCIL20021         Leadership in Action Online Unit         10         None           UCIL20032         Leadership in Action Online Unit         10         None           UCIL20032         Leadership in Action Online Unit         10         None           UCIL20032         Multilingual Manchester         10         N	BMAN30991	The International Management of Knowledge & Technology	10	None
BMAN31842   People Management and Change   10   None	BMAN31212	Investment Economics and Innovation	10	None
MCEL30001         Tools and Techniques for Enterprise         10         None           MCEL30002         Tools and Techniques for Enterprise         10         None           MCEL30021         Interdisciplinary Sustainable Development         10         None           MCEL30031         Enterprise Management for Computer Scientists         10         None           MCEL30032         Managing Finance in Enterprises for Computer Scientists         10         None           UCIL20001         Leadership of Learning         10         None           UCIL20021         Leadership in Action         10         None           UCIL20022         Leadership in Action         10         None           UCIL20031         Leadership in Action Online Unit         10         None           UCIL20022         The Crisis of Nature: Issues in Environmental History         10         None           UCIL20032         The Crisis of Nature: Issues in Environmental History         10         None           UCIL20102         Multilingual Manchester         10         None           UCIL20103         Science, the Media and the Public         10         None           UCIL20128         Science, the Media and the Public         10         None           UCIL20282         The Informat	BMAN31752	Consumers and Markets	10	None
MCEL30002         Tools and Techniques for Enterprise         10         None           MCEL30021         Interdisciplinary Sustainable Development         10         None           MCEL30032         Interdisciplinary Sustainable Development         10         None           MCEL30031         Enterprise Management for Computer Scientists         10         None           UCIL20001         Leadership of Learning         10         None           UCIL20021         Leadership in Action         10         None           UCIL20022         Leadership in Action Online Unit         10         None           UCIL20031         Leadership in Action Online Unit         10         None           UCIL20032         Leadership in Action Online Unit         10         None           UCIL20032         The Crisis of Nature: Issues in Environmental History         10         None           UCIL20092         The Crisis of Nature: Issues in Environmental History         10         None           UCIL20102         Multilingual Manchester         10         None           UCIL20102         The Information Age         10         None           UCIL20112         Science, the Media and the Public         10         None           UCIL20331         From Cholera to Aids: A Global	BMAN31842	People Management and Change	10	None
MCEL30022     Interdisciplinary Sustainable Development     10     None       MCEL30031     Enterprise Management for Computer Scientists     10     None       MCEL30032     Managing Finance in Enterprises for Computer Scientists     10     None       UCIL20001     Leadership of Learning     10     None       UCIL20021     Leadership in Action     10     None       UCIL20032     Leadership in Action Online Unit     10     None       UCIL20092     The Crisis of Nature: Issues in Environmental History     10     None       UCIL20102     Multilingual Manchester     10     None       UCIL20121     Science, the Media and the Public     10     None       UCIL20181     Science, the Media and the Public     10     None       UCIL20282     The Information Age     10     None       UCIL20331     From Cholera to Aids: A Global History of Epidemics     10     None       UCIL21020     Leadership of Learning     10     None       UCIL21102     Diverse Britain in a Globalising World     10     None	MCEL30001	Tools and Techniques for Enterprise	10	None
MCEL30031       Enterprise Management for Computer Scientists       10       None         MCEL30032       Managing Finance in Enterprises for Computer Scientists       10       None         UCIL20021       Leadership of Learning       10       None         UCIL20022       Leadership in Action       10       None         UCIL20031       Leadership in Action Online Unit       10       None         UCIL20032       Leadership in Action Online Unit       10       None         UCIL20092       The Crisis of Nature: Issues in Environmental History       10       None         UCIL20102       Multilingual Manchester       10       None         UCIL20102       Multilingual Manchester       10       None         UCIL20122       The Information Age       10       None         UCIL20223       The Information Age       10       None         UCIL20331       From Cholera to Aids: A Global History of Epidemics       10       None         UCIL2082       An Introduction to Current Topics in Biology       10       None         UCIL21002       Leadership of Learning       10       None         UCIL21102       Diverse Britain in a Globalising World       10       None         UCIL21202       Bioethics: Contemporary	MCEL30002	Tools and Techniques for Enterprise	10	None
MCEL30031       Enterprise Management for Computer Scientists       10       None         MCEL30032       Managing Finance in Enterprises for Computer Scientists       10       None         UCIL20021       Leadership of Learning       10       None         UCIL20022       Leadership in Action       10       None         UCIL20031       Leadership in Action Online Unit       10       None         UCIL20032       Leadership in Action Online Unit       10       None         UCIL20092       The Crisis of Nature: Issues in Environmental History       10       None         UCIL20102       Multilingual Manchester       10       None         UCIL20102       Multilingual Manchester       10       None         UCIL20122       The Information Age       10       None         UCIL20223       The Information Age       10       None         UCIL20331       From Cholera to Aids: A Global History of Epidemics       10       None         UCIL2082       An Introduction to Current Topics in Biology       10       None         UCIL21002       Leadership of Learning       10       None         UCIL21102       Diverse Britain in a Globalising World       10       None         UCIL21202       Bioethics: Contemporary	MCEL30022	Interdisciplinary Sustainable Development	10	None
MCEL30032     Managing Finance in Enterprises for Computer Scientists     10     None       UCIL2001     Leadership of Learning     10     None       UCIL20021     Leadership in Action     10     None       UCIL20032     Leadership in Action Online Unit     10     None       UCIL20032     Leadership in Action Online Unit     10     None       UCIL20032     Leadership in Action Online Unit     10     None       UCIL20092     The Crisis of Nature: Issues in Environmental History     10     None       UCIL20102     Multilingual Manchester     10     None       UCIL20181     Science, the Media and the Public     10     None       UCIL20282     The Information Age     10     None       UCIL20331     From Cholera to Aids: A Global History of Epidemics     10     None       UCIL21002     Leadership of Learning     10     None       UCIL21002     Leadership of Learning     10     None       UCIL21102     Diverse Britain in a Globalising World     10     None       UCIL21202     Bioethics: Contemporary Issues in Science and Biomedicine     10     None       UCIL21302     Communicating with Confidence     10     None       UCIL21402     Innovation for a Sustainable Society     10     None	MCEL30031	Enterprise Management for Computer Scientists	10	None
UCIL20021     Leadership in Action     10     None       UCIL20032     Leadership in Action Online Unit     10     None       UCIL20032     Leadership in Action Online Unit     10     None       UCIL20092     The Crisis of Nature: Issues in Environmental History     10     None       UCIL20102     Multilingual Manchester     10     None       UCIL20181     Science, the Media and the Public     10     None       UCIL20282     The Information Age     10     None       UCIL20331     From Cholera to Aids: A Global History of Epidemics     10     None       UCIL20882     An Introduction to Current Topics in Biology     10     None       UCIL21002     Leadership of Learning     10     None       UCIL21102     Diverse Britain in a Globalising World     10     None       UCIL21202     Bioethics: Contemporary Issues in Science and Biomedicine     10     None       UCIL21301     Communicating with Confidence     10     None       UCIL21402     Innovation for a Sustainable Society     10     None       UCIL21802     Body, Health and Well-Being     10     None       UCIL21902     Humanitarian Challenges in an Unequal World     10     None       UCIL22501     Global Citizenship and Sustainability     10     None	MCEL30032		10	None
UCIL20021 Leadership in Action 10 None UCIL20022 Leadership in Action 10 None UCIL20031 Leadership in Action Online Unit 10 None UCIL20032 Leadership in Action Online Unit 10 None UCIL20092 The Crisis of Nature: Issues in Environmental History 10 None UCIL20102 Multilingual Manchester 10 None UCIL20118 Science, the Media and the Public 10 None UCIL20181 Science, the Media and the Public 10 None UCIL20321 The Information Age 10 None UCIL20322 The Information Age 10 None UCIL20331 From Cholera to Aids: A Global History of Epidemics 10 None UCIL20382 An Introduction to Current Topics in Biology 10 None UCIL21002 Leadership of Learning 10 None UCIL21002 Leadership of Learning 10 None UCIL21102 Diverse Britain in a Globalising World 10 None UCIL21202 Bioethics: Contemporary Issues in Science and Biomedicine 10 None UCIL21301 Communicating with Confidence 10 None UCIL21302 Communicating with Confidence 10 None UCIL21402 Innovation for a Sustainable Society 10 None UCIL21402 Humanitarian Challenges in an Unequal World 10 None UCIL212002 Humanitarian Challenges in an Unequal World 10 None UCIL22501 Global Citizenship and Sustainability 10 None UCIL22501 Global Citizenship and Sustainability 10 None UCIL24002 The Art of Enterprise 10 None	UCIL20001		10	None
UCIL20022 Leadership in Action 10 None UCIL20031 Leadership in Action Online Unit 10 None UCIL20032 Leadership in Action Online Unit 10 None UCIL20032 Leadership in Action Online Unit 10 None UCIL20020 The Crisis of Nature: Issues in Environmental History 10 None UCIL20102 Multilingual Manchester 10 None UCIL20181 Science, the Media and the Public 10 None UCIL20282 The Information Age 10 None UCIL20331 From Cholera to Aids: A Global History of Epidemics 10 None UCIL20331 From Cholera to Aids: A Global History of Epidemics 10 None UCIL20882 An Introduction to Current Topics in Biology 10 None UCIL21002 Leadership of Learning 10 None UCIL21102 Diverse Britain in a Globalising World 10 None UCIL21202 Bioethics: Contemporary Issues in Science and Biomedicine 10 None UCIL21301 Communicating with Confidence 10 None UCIL21302 Communicating with Confidence 10 None UCIL21402 Innovation for a Sustainable Society 10 None UCIL21402 Humanitarian Challenges in an Unequal World 10 None UCIL21202 Humanitarian Challenges in an Unequal World 10 None UCIL22301 Curating Culture 10 None UCIL22501 Global Citizenship and Sustainability 10 None UCIL24002 The Art of Enterprise 10 None		1 0	10	None
UCIL20031 Leadership in Action Online Unit UCIL20032 Leadership in Action Online Unit UCIL20092 The Crisis of Nature: Issues in Environmental History UCIL20102 Multilingual Manchester UCIL20103 Science, the Media and the Public UCIL20181 Science, the Media and the Public UCIL20282 The Information Age UCIL20331 From Cholera to Aids: A Global History of Epidemics UCIL20331 From Cholera to Aids: A Global History of Epidemics UCIL20882 An Introduction to Current Topics in Biology UCIL21002 Leadership of Learning UCIL21002 Leadership of Learning UCIL21102 Diverse Britain in a Globalising World UCIL21202 Bioethics: Contemporary Issues in Science and Biomedicine UCIL21301 Communicating with Confidence UCIL21302 Communicating with Confidence UCIL21402 Innovation for a Sustainable Society UCIL21402 Innovation for a Sustainable Society UCIL21902 Humanitarian Challenges in an Unequal World UCIL22301 Curating Culture UCIL22301 Global Citizenship and Sustainability UCIL22501 Global Citizenship and Sustainability UCIL22501 The Art of Enterprise	UCIL20022	1	10	None
UCIL20032 Leadership in Action Online Unit  UCIL20092 The Crisis of Nature: Issues in Environmental History  UCIL20102 Multilingual Manchester  UCIL20181 Science, the Media and the Public  UCIL20282 The Information Age  UCIL20331 From Cholera to Aids: A Global History of Epidemics  UCIL20882 An Introduction to Current Topics in Biology  UCIL20882 An Introduction to Current Topics in Biology  UCIL21002 Leadership of Learning  UCIL21102 Diverse Britain in a Globalising World  UCIL21202 Bioethics: Contemporary Issues in Science and Biomedicine  UCIL21301 Communicating with Confidence  UCIL21302 Communicating with Confidence  UCIL21402 Innovation for a Sustainable Society  UCIL21802 Body, Health and Well-Being  UCIL21902 Humanitarian Challenges in an Unequal World  UCIL23301 Clarating Culture  UCIL23301 Clarating Culture  UCIL23301 Clarating Culture  UCIL23301 Clarating Culture  10 None  UCIL23301 Clarating Culture  10 None  UCIL22501 Global Citizenship and Sustainability  10 None  UCIL22501 The Art of Enterprise			10	None
UCIL 20102 Multilingual Manchester 10 None UCIL 20181 Science, the Media and the Public 10 None UCIL 20282 The Information Age 10 None UCIL 20331 From Cholera to Aids: A Global History of Epidemics 10 None UCIL 20882 An Introduction to Current Topics in Biology 10 None UCIL 21002 Leadership of Learning 10 None UCIL 21102 Diverse Britain in a Globalising World 10 None UCIL 21202 Bioethics: Contemporary Issues in Science and Biomedicine 10 None UCIL 21301 Communicating with Confidence 10 None UCIL 21402 Innovation for a Sustainable Society 10 None UCIL 21802 Body, Health and Well-Being 10 None UCIL 21902 Humanitarian Challenges in an Unequal World 10 None UCIL 22301 Curating Culture 10 None UCIL 22501 Global Citizenship and Sustainability 10 None UCIL 24002 The Art of Enterprise 10 None			10	None
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UCIL21302     Communicating with Confidence     10     None       UCIL21402     Innovation for a Sustainable Society     10     None       UCIL21802     Body, Health and Well-Being     10     None       UCIL21902     Humanitarian Challenges in an Unequal World     10     None       UCIL22301     Curating Culture     10     None       UCIL22501     Global Citizenship and Sustainability     10     None       UCIL24002     The Art of Enterprise     10     None	UCIL21301	Communicating with Confidence	10	None
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UCIL21902     Humanitarian Challenges in an Unequal World     10     None       UCIL22301     Curating Culture     10     None       UCIL22501     Global Citizenship and Sustainability     10     None       UCIL24002     The Art of Enterprise     10     None	UCIL21802	·	10	None
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UCID23002   The Digital Society   TO   INORE	UCIL25002	The Digital Society	10	None
UCIL29002 Physics & The Grand Challenges of Today 10 None			10	None
UCIL30832 Madness and Society in the Modern Age 10 None				
UCIL32511 From Baker Street to CSI 20 None				
UCIL33201 Climate Change and Society 10 None				

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