

# Computer Science BSc (Hons) options 2018-2019

<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

https://www.alc.manchester.ac.uk/study/university-language-centre-leap-courses/course-information/leap-courses/courses-for-r-all/

course

- 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	Agile Methods
COMP25111	Operating Systems	10	Computer Architecture
COMP26120	Algorithms and Imperative Programming	20	Computer Languages

units:

#### 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

# 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
BMAN20821	New Product Development and Innovation	10	None
BMAN21061	Introduction to Management Information Systems	10	None
UCIL10201	Language, Mind and Brain	20	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
UCIL20111	Core Themes in Animation and Visual Culture of Post War Japan	10	None
UCIL20211	Are we alone?	10	None
UCIL20331	From Cholera to Aids: A Global History of Epidemics	10	None
UCIL21301	Communicating with Confidence	10	None
UCIL21331	Becoming an inspirational individual	10	None
UCIL22001	Essential Enterprise	10	None
UCIL22501	Global Citizenship and Sustainability	10	None
UCIL24141	Science, Technology and Democracy	10	None
ULBS20011	Intro to British Sign Language S1	10	None
ULCH20021	Post-intermediate Chinese - first semester	10	None
ULGE10021	Introductory German	10	None
ULIT10011	Beginners' Italian	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
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
UCIL20112	Understanding Mental Health	10	None
UCIL20112	Understanding Mental Health	10	None
UCIL20122	AI: Robot Overlord, Replacement or Colleague?	10	None
UCIL20122	AI: Robot Overlord, Replacement or Colleague?	10	None

UCIL20282	The Information Age	10	None
UCIL20882	An Introduction to Current Topics in Biology	10	None
UCIL21002	Leadership of Learning	10	None
UCIL21202	Bioethics: Contemporary Issues in Science and Biomedicine	10	None
UCIL21302	Communicating with Confidence	10	None
UCIL21802	Body, Health and Well-Being	10	None
UCIL22002	Essential Enterprise	10	None
UCIL23302	Science and Civilisation in East Asia	10	None
UCIL24002	The Art of Enterprise	10	None
UCIL25002	The Digital Society	10	None
UCIL29002	Physics & The Grand Challenges of Today	10	None
ULBS20012	British Sign Language	10	None
ULBS20022	Introduction to British Sign Language - Part 2	10	None
ULCH10022	Introduction to Spoken Chinese	10	None
ULJA10022	Introduction to Spoken Japanese	10	None

# Level 2 - option pool 5

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

ULAR1000     Beginners' Arabic     20     None       ULAR10101     Beginners' Arabic     20     None       ULAR20101     Pre-intermedite Arabic     20     None       ULAR20110     Intermedite Arabic     20     None       ULAR20110     Intermedite Arabic     20     None       ULAR20110     Intermedite Arabic     20     None       ULCH20010     Beginners' Madrin Chinese     20     None       ULCH201010     Beginners' Anadrin Chinese     20     None       ULD201010     Beginners' Fanch     20     None       ULD201010     Beginners' Fanch     20     None       ULPR30010     Intermedita Brench     20     None       ULPR30010     Intermedita Brench     20     None       ULPR302010     Intermedita Grench     20     None       ULFR30010     Beginners' German     20     None       ULFR302010     Fresher     20     None       ULFR302010     Intermedita German     20     None       ULGE301010     Pre-int	Code	Title	Credits	Theme
TLAR10101     legimers' Arabic     20     None       ULAR20110     Intermediate Arabic     20     None       ULAR21110     Intermediate Arabic     20     None       ULAR21110     Intermediate Arabic NC     20     None       ULAR20210     Pre-intermediate Mandarin Chinese     20     None       ULCH20020     Post-intermediate Mandarin Chinese     20     None       ULDU201010     Begimers' Mutch Mandarin Chinese     20     None       ULDU201010     Intermediate Dutch     20     None       ULDPR20101     Intermediate French     20     None       ULFR20101     Intermediate French     20     None       ULFR20101     Intermediate French     20     None       ULFR20101     Pre-Intermediate French     20     None       ULFR20101     Pre-Intermediate French     20     None       ULGE20101     Pre-Intermediate French     20     None       ULGE20101     Intermediate German     20     None       ULGE20102     Intermediate German     20     None <td>ULAR10010</td> <td>Beginners' Arabic</td> <td>20</td> <td>None</td>	ULAR10010	Beginners' Arabic	20	None
IULAR20110     Intermediate Arabic     20     None       ULAR21010     Intermediate Arabic     20     None       ULAR11010     Intermediate Arabic NC     20     None       ULCH10200     Beginners' Mondarin Chinese     20     None       ULCH20201     Pre-intermediate Mandarin Chinese     20     None       ULDU10101     Beginners' Duch     20     None       ULDU20101     Intermediate Mandarin Chinese     20     None       ULDU201010     Intermediate Mandarin Chinese     20     None       ULPR10101     Intermediate Mandarin Chinese     20     None       ULPR10101     Intermediate Business French     20     None       ULFR20102     Post-intermediate French     20     None       ULFR20103     Further French     20     None       ULGE20104     Reginners' German     20     None       ULGE20105     Post-Intermediate German     20     None       ULGE20104     Reginners' Intermediate German     20     None       ULGE20105     Further German     20	ULAR10020	Elementary Arabic	20	None
IULAR20210 Pre-intermedite Arabic NC 20 None   ULAR21110 Intermediate Arabic NC 20 None   ULCH10200 Beginners' Mundarin Chinese 20 None   ULCH201010 Beginners' Dutch 20 None   ULDU101010 Beginners' Dutch 20 None   ULDU20101 Beginners' Dutch 20 None   ULPR20101 Beginners' French 20 None   ULFR20101 Intermediate Business French 20 None   ULFR20101 Intermediate French 20 None   ULFR20101 Pre-intermediate French 20 None   ULFR20101 Pre-intermediate French 20 None   ULGE20101 Pre-intermediate French 20 None   ULGE20101 Pre-intermediate German 20 None   ULGE20101 Intermediate German 20 None   ULGE20102 Post-intermediate German 20 None   ULGE20103 Pre-intermediate German 20 None   ULGE20104 Pre-intermediate German 20 None   ULGE20105 Pre-intermediate German 20 None   ULGE20106 Reginners' Halan 20 None	ULAR11010	Beginners' Arabic		None
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ULAR20110	Intermediate Arabic	20	None
ULCH10200 Beginners' Mandarin Chinese 20 None   ULCH20101 Pre-intermediate Mandarin Chinese 20 None   ULCH201010 Reginners' Dutch 20 None   ULDU20101 Beginners' Dutch 20 None   ULDU20101 Intermediate Dutch 20 None   ULPR10101 Beginners' French 20 None   ULFR20010 Intermediate Business French 20 None   ULFR20101 Intermediate Business French 20 None   ULFR20102 Post-intermediate French 20 None   ULFR20103 Further French 20 None   ULGE01010 Beginners' Geerman 20 None   ULGE20101 Intermediate Geerman 20 None   ULGE20102 Post-Intermediate German 20 None   ULGE20103 Further German 20 None   ULGE20104 Pre-intermediate German 20 None   ULGE20105 Further German 20 None   ULGE20106 Pre-intermediate German 20 None   ULGE20107 Intermediate German 20 None   ULGE20108 Intermediate German 20 None <td< td=""><td>ULAR20210</td><td>Pre-intermedite Arabic</td><td>20</td><td>None</td></td<>	ULAR20210	Pre-intermedite Arabic	20	None
ULCH20020 Pos-intermediate Mandarin Chinese 20 None   ULCH20110 Pre-intermediate Mandarin Chinese 20 None   ULDU10010 BeginnerS Dutch 20 None   ULDR01001 BeginnerS Prench 20 None   ULFR01010 Intermediate Business French 20 None   ULFR20101 Intermediate French 20 None   ULFR20102 Post-intermediate French 20 None   ULFR20103 Further French 20 None   ULFR20104 BeginnerS German 20 None   ULGE20101 BeginnerS' German 20 None   ULGE20202 Post-Intermediate German 20 None   ULGE20102 Intermediate German 20 None   ULGE20303 Further German 20 None   ULGE20304 Further German 20 None   ULGE20305 Further German 20 None   ULGE20302 Intermediate German 20 None   ULGE20303 Further German 20 None   ULGE20302 Intermediate German 20 None   ULGE20303 Intermediate Habin 20 None   ULGE20101 Be	ULAR21110	Intermediate Arabic NC	20	None
TULCH20110 Pre-intermediate Mandarin Chinese 20 None   ULDU10010 Beginners' Dutch 20 None   ULDU20010 Intermediate Dutch 20 None   ULFR10010 Beginners' French 20 None   ULFR20010 Intermediate Business French 20 None   ULFR20010 Intermediate French 20 None   ULFR20010 Post-intermediate French 20 None   ULFR20010 Post-intermediate French 20 None   ULGE10010 Beginners' German 20 None   ULGE20101 Post-Intermediate German 20 None   ULGE20102 Post-Intermediate German 20 None   ULGE20103 Further German 20 None   ULGE20104 Intermediate German 20 None   ULGE20105 Introductory German (A.1.1-) - Enhanced 10 None   ULGE30030 Introductory German (A.1.1-) - Enhanced 10 None   ULHE20010 Intermediate Idaian 20 None   ULH120010 Intermediate Idaian 20 None   ULH202010 Intermediate Idaian 20 None   ULT201010 Pre-Intermediate Idaian 20	ULCH10200	Beginners' Mandarin Chinese	20	None
ULDU10010     Beginners' Dutch     20     None       ULDU20010     Intermediate Dutch     20     None       ULR101010     Beginners' French     20     None       ULFR201010     Intermediate Business French     20     None       ULFR201010     Intermediate French     20     None       ULFR201010     Pers-Intermediate French     20     None       ULFR201010     Beginners' German     20     None       ULGE201010     Intermediate German     20     None       ULGE20202     Post-Intermediate German     20     None       ULGE201010     Intermediate German     20     None       ULGE20202     Post-Intermediate German     20     None       ULGE20302     Intermediate German     20     None       ULGE20302     Intermediate Hater     20     None       ULGE2010     Beginners' Hatian     20     None       ULGE20101     Berinter's Italian     20     None       ULT120101     Bereinters' Italian     20     None       ULT172	ULCH20020	Post-intermediate Mandarin Chinese	20	None
ULDU20010     Inermediate Dutch     20     None       ULRR1001     Beginners' French     20     None       ULRR20010     Intermediate Business French     20     None       ULR20010     Intermediate French     20     None       ULR20030     Further French     20     None       ULR20010     Beginners' German     20     None       ULGE10010     Beginners' German     20     None       ULGE20020     Post-Intermediate German     20     None       ULGE20020     Post-Intermediate German     20     None       ULGE20030     Further German     20     None       ULGE20030     Further German     20     None       ULGE20302     Intermediate German     20     None       ULGE30302     Intermediate German     20     None       ULH3030     Beginners' Hebrew     20     None       ULH30030     Beginner's Iderw     20     None       ULT3010     Beginner's Iderw     20     None       ULT30100     Beginner's Iderw </td <td>ULCH20110</td> <td>Pre-intermediate Mandarin Chinese</td> <td>20</td> <td>None</td>	ULCH20110	Pre-intermediate Mandarin Chinese	20	None
ULFR10010     Beginners' French     20     None       ULFR20101     Intermediate French     20     None       ULFR20020     Post-intermediate French     20     None       ULFR20030     Forther French     20     None       ULFR20100     Breinners' German     20     None       ULGE20101     Intermediate German     20     None       ULGE20010     Intermediate German     20     None       ULGE20101     Intermediate German     20     None       ULGE202010     Pre-intermediate German     20     None       ULGE20101     Pre-intermediate German     20     None       ULGE20202     Introductory German (A1.1+) - Enhanced     10     None       ULHB10305     Beginner's Hebrew     20     None       ULHB102030     Intermediate Hebrew     20     None       ULT201010     Beginner's Italian     20     None       ULT20102     Post-Intermediate Italian     20     None       ULT20101     Intermediate Italian     20     None	ULDU10010	Beginners' Dutch	-	
ULFR1010     Intermediate Business French     20     None       ULFR20020     Intermediate French     20     None       ULFR20030     Further French     20     None       ULFR20030     Further French     20     None       ULFR20010     Beginners' German     20     None       ULGE10010     Beginners' German     20     None       ULGE20010     Intermediate German     20     None       ULGE20102     Post-Intermediate German     20     None       ULGE20110     Pre-intermediate German     20     None       ULGE2012     Introductory German (A1.1+) - Enhanced     10     None       ULTB10030     Beginners' Hebrew     20     None       ULT10101     Beginners' Italian     20     None       ULT120010     Intermediate Italian     20     None       ULT120100     Post-Intermediate Italian     20     None       ULT120100     Beginners' Italian     20     None       ULT20200     Intermediate Italian     20     None	ULDU20010	Intermediate Dutch	20	
ULFR20010     Intermediate French     20     None       ULFR20020     Post-intermediate French     20     None       ULFR20110     Fre-Intermediate French     20     None       ULGE1010     Beginners' German     20     None       ULGE20010     Intermediate German     20     None       ULGE20010     Further German     20     None       ULGE20101     Fre-intermediate German     20     None       ULGE2010     For-intermediate German     20     None       ULGE2010     Fre-intermediate German     20     None       ULGE2010     Beginners' Hebrew     20     None       ULGE2030     Intermediate Hebrew     20     None       ULHB20303     Intermediate Hebrew     20     None       ULT120010     Beginner's Italian     20     None       ULT72010     Post-Intermediate Italian     20     None       ULT30100     Beginners' Japanese     20     None       ULJA1010     Beginners' Japanese     20     None       ULJA2010	ULFR10010	Beginners' French	20	None
ULFR20020Post-intermediate French20NoneULFR20110Further French20NoneULFR20110Pre-Intermediate French20NoneULGE10010Beginners' German20NoneULGE20020Post-Intermediate German20NoneULGE20020Post-Intermediate German20NoneULGE202012Introductory German (A1.1+) - Enhanced10NoneULGE30202Introductory German (A1.1+) - Enhanced10NoneULGE30203Intermediate Hebrew20NoneULGE30204Intermediate Idainan20NoneULHB10030Beginners' Hebrew20NoneULHT01010Beginners' Italian20NoneULT72010Intermediate Italian20NoneULT72010Intermediate Italian20NoneULT72010Pre-Intermediate Italian20NoneULT72010Beginners' Italian20NoneULT72010Beginners' Japanese20NoneULT30010Beginners' Japanese20NoneULJA20010Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20102Post-intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20102Post-intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Beginners' Korean20None <td></td> <td>Intermediate Business French</td> <td>-</td> <td>None</td>		Intermediate Business French	-	None
ULFR20030Further French20NoneULFR20110Pre-Intermediate French20NoneULGE10010Beginners' German20NoneULGE20020Post-Intermediate German20NoneULGE20030Further German20NoneULGE20103Further German20NoneULGE20302Introductory German (A1.1+) - Enhanced10NoneULHB10030Beginners' Hebrew20NoneULHB10030Beginners' Italian20NoneULT70010Beginners' Italian20NoneULT70020Post-Intermediate Italian20NoneULT70010Intermediate Italian20NoneULT70010Beginners' Italian20NoneULT70010Beginners' Italian20NoneULT70010Beginners' Japanese20NoneULT30010Beginners' Japanese20NoneULJA10101Beginners' Japanese20NoneULJA20202Post-intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20102Post-intermediate Japanese20NoneULJA20101Beginners' Korean20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Beginners' Korean20NoneULJA20101Beginners' Korean20NoneULJA20101Beginners' Korean<	ULFR20010	Intermediate French	20	None
ULFR20110     Pre-Intermediate French     20     None       ULGE10010     Beginners' German     20     None       ULGE20010     Intermediate German     20     None       ULGE201010     Pre-Intermediate German     20     None       ULGE20030     Further German     20     None       ULGE3010     Pre-intermediate German     20     None       ULGE30022     Introductory German (A1.1+) - Enhanced     10     None       ULHB20030     Intermediate Hebrew     20     None       ULHT20010     Beginners' Hebrew     20     None       ULIT20010     Intermediate Hebrew     20     None       ULIT20010     Intermediate Italian     20     None       ULIT20010     Intermediate Italian     20     None       ULIT2010     Pre-Intermediate Italian     20     None       ULIT2010     Beginners' Japanese     20     None       ULJA1010     Beginners' Japanese     20     None       ULJA20101     Intermediate Japanese     20     None	ULFR20020	Post-intermediate French	20	None
ULGE10010Beginners' German20NoneULGE20010Intermediate German20NoneULGE20030Further German20NoneULGE20101Pre-intermediate German20NoneULGE30022Introductory German (A1.1+) - Enhanced10NoneULHB10030Beginners' Hebrew20NoneULHB20030Intermediate Hebrew20NoneULHB20030Intermediate Hebrew20NoneULT70101Beginners' Italian20NoneULT720102Post-Intermediate Italian20NoneULT720103Beginners' Italian20NoneULT720104Pre-Intermediate Italian20NoneULT720105Beginners' Japanese20NoneULJA10010Beginners' Japanese20NoneULJA20101Intermediate Italian20NoneULJA20101Pre-Intermediate Italian20NoneULJA20101Beginners' Japanese20NoneULJA20101Beginners' Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Russian20NoneULSP20010Beginners' Russian20NoneULSP20010 <td< td=""><td>ULFR20030</td><td>Further French</td><td>20</td><td>None</td></td<>	ULFR20030	Further French	20	None
ULGE20010Intermediate German20NoneULGE20102Post-Intermediate German20NoneULGE20103Further German20NoneULGE20104Pre-intermediate German20NoneULGE20105Pre-intermediate German20NoneULGE20106Pre-intermediate German20NoneULGE20107Pre-intermediate German20NoneULGE20108Beginners' Hebrew20NoneULHB200309Intermediate Hebrew20NoneULHT20101Intermediate Italian20NoneULIT20202Post-Intermediate Italian20NoneULIT20101Pre-Intermediate Italian20NoneULIT20101Pre-Intermediate Italian20NoneULIT20101Beginners' Japanese20NoneULJA10010Beginners' Japanese20NoneULJA20010Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20102Post-intermediate Japanese20NoneULJA201010Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20101Beginners' Korean20NoneU	ULFR20110	Pre-Intermediate French	20	None
ULGE2002Post-Intermediate German20NoneULGE20130Further German20NoneULGE20110Pre-intermediate German20NoneULGE30022Introductory German (A1.1+) - Enhanced10NoneULHB10030Beginners' Hebrew20NoneULHB20030Intermediate Hebrew20NoneULHT10101Beginner's Italian20NoneULIT20101Intermediate Italian20NoneULIT20102Post-Intermediate Italian20NoneULIT20103Beginner's Italian20NoneULIT20104Pre-Intermediate Italian20NoneULIT20105Beginners' Italian20NoneULIT20106Beginners' Japanese20NoneULJA10107Beginners' Japanese20NoneULJA20010Intermediate Japanese20NoneULJA20110Intermediate Japanese20NoneULJA20110Pre-Intermediate Japanese20NoneULJA20110Pre-Intermediate Japanese20NoneULKR10101Beginners' Forean20NoneULKR10101Beginners' Forean20NoneULKR10101Beginners' Rorean20NoneULSP10010Beginners' Spanish20NoneULSP10010Beginners' Spanish20NoneULSP10010Beginners' Spanish20NoneULSP20020Intermediate Russian20NoneULSP20030	ULGE10010	Beginners' German	20	None
ULGE2010Further German20NoneULGE20110Pre-intermediate German20NoneULGE30022Introductory German (A1.1+) - Enhanced10NoneULHB10030Beginners' Hebrew20NoneULHB10030Intermediate Hebrew20NoneULHT20010Beginners' Italian20NoneULIT20010Intermediate Italian20NoneULIT20102Post-Intermediate Italian20NoneULIT201030Beginners' Italian20NoneULIT20104Pre-Intermediate Italian20NoneULIT30010Beginners' Italian20NoneULJA11010Beginners' Japanese0NoneULJA10101Beginners' Japanese0NoneULJA20010Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20102Post-intermediate Japanese20NoneULJA20104Intermediate Japanese20NoneULJA20105Reginners' Fortuguese20NoneULJA20106Intermediate Japanese20NoneULJA20107Intermediate Japanese0NoneULJA21010Beginners' Korean20NoneULJA21010Beginners' Korean20NoneULJA21010Beginners' Korean20NoneULJA21010Beginners' Korean20NoneULJA21010Beginners' Korean20NoneULLSP10010Begin	ULGE20010	Intermediate German	20	None
ULGE20110Pre-intermediate German20NoneULGE30022Introductory German (A1.1+) - Enhanced10NoneULHB10030Beginners' Hebrew20NoneULHB20030Intermediate Hebrew20NoneULHT20010Beginners' Italian20NoneULIT201010Intermediate Hebrew20NoneULIT20010Intermediate Italian20NoneULIT20010Post-Intermediate Italian20NoneULIT20110Pre-Intermediate Italian20NoneULIT30010Beginners' Italian20NoneULJA10010Beginners' Italian20NoneULJA20101Intermediate Japanese0NoneULJA20102Post-Intermediate Japanese20NoneULJA20103Intermediate Japanese20NoneULJA20104Intermediate Japanese20NoneULJA20105Intermediate Japanese20NoneULJA20106Intermediate Japanese20NoneULJA20107Pre-Intermediate Japanese20NoneULJA20108Reginners' Korean20NoneULKR10010Beginners' Rorean20NoneULRU20101Intermediate Japanese20NoneULRU101010Beginners' Rosian20NoneULRU20101Intermediate Japanese20NoneULSP10010Beginners' Rosian20NoneULRU20101Intermediate Japanese20NoneULR	ULGE20020	Post-Intermediate German	20	None
ULGE30022Introductory German (A1.1+) - Enhanced10NoneULHB10030Beginners' Hebrew20NoneULHB20030Intermediate Hebrew20NoneULIT10010Beginner's Italian20NoneULIT20101Intermediate Italian20NoneULIT20102Post-Intermediate Italian20NoneULIT20103Beginners' Italian20NoneULIT20104Pre-Intermediate Italian20NoneULIT20105Beginners' Italian20NoneULJA10106Beginners' Japanese20NoneULJA10107Beginners' Japanese20NoneULJA20010Intermediate Japanese0NoneULJA20010Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20102Post-intermediate Japanese20NoneULJA20103Intermediate Japanese20NoneULJA20104Intermediate Japanese20NoneULJA20105Beginners' Korean20NoneULJK10010Beginners' Korean20NoneULLRU10101Beginners' Russian20NoneULRU20101Intermediate Russian20NoneULRU20101Beginners' Spanish20NoneULSP10050Beginners' Spanish (Fast track)20NoneULSP20030Further Spanish (Fast track)20NoneULSP20030Further Spanish20None	ULGE20030	Further German	20	None
ULHB10030Beginners' Hebrew20NoneULHB20030Intermediate Hebrew20NoneULIT10010Beginner's Italian20NoneULIT20101Intermediate Italian20NoneULIT20102Post-Intermediate Italian20NoneULIT20110Pre-Intermediate Italian20NoneULIT20110Beginners' Italian20NoneULIT30010Beginners' Italian20NoneULJA10010Beginners' Japanese20NoneULJA10110Beginners' Japanese0NoneULJA20010Intermediate Japanese20NoneULJA20010Intermediate Japanese20NoneULJA20101Intermediate Japanese20NoneULJA20102Post-intermediate Japanese20NoneULJA20103Intermediate Japanese20NoneULJA20104Beginners' Rapanese20NoneULJA20105Beginners' Korean20NoneULJA20106Intermediate Japanese20NoneULKR10010Beginners' Korean20NoneULKR10010Beginners' Russian20NoneULRU20101Intermediate Russian20NoneULSP20050Beginners' Spanish (Fast track)20NoneULSP20030Intermediate Spanish20NoneULSP20030Further Spanish20NoneULSP20030Further Spanish20NoneULSP20030Further Spani	ULGE20110	Pre-intermediate German	20	None
ULHB20030Intermediate Hebrew20NoneULIT10010Beginner's Italian20NoneULIT20010Intermediate Italian20NoneULIT20101Pre-Intermediate Italian20NoneULIT20101Pre-Intermediate Italian20NoneULIT20101Beginners' Italian20NoneULIT30010Beginners' Italian20NoneULIT30101Beginners' Japanese20NoneULJA10010Beginners' Japanese0NoneULJA20010Intermediate Japanese0NoneULJA20020Post-intermediate Japanese20NoneULJA20110Pre-Intermediate Japanese20NoneULJA20110Pre-Intermediate Japanese0NoneULJA20101Intermediate Japanese0NoneULJA21010Beginners' Korean20NoneULRU10010Beginners' Rorean20NoneULRU10010Beginners' Russian20NoneULRU20010Intermediate Russian20NoneULSP10010Beginners' Spanish20NoneULSP10010Beginners' Spanish (Fast track)20NoneULSP20020Intermediate Spanish20NoneULSP20030Further Spanish20NoneULSP20030Further Spanish20NoneULSP20030Further Spanish20None	ULGE30022	Introductory German (A1.1+) - Enhanced	10	None
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ULJA11010Beginners' Japanese0NoneULJA20010Intermediate Japanese20NoneULJA20020Post-intermediate Japanese20NoneULJA20110Pre-Intermediate Japanese20NoneULJA21010Intermediate Japanese0NoneULJA21010Intermediate Japanese0NoneULJA21010Beginners' Korean20NoneULPT10010Beginners' Portuguese20NoneULRU10010Beginners' Russian20NoneULSP10010Beginners' Spanish20NoneULSP10010Beginners' Spanish20NoneULSP10010Beginners' Spanish20NoneULSP10010Beginners' Spanish20NoneULSP20010Intermediate Spanish20NoneULSP20020Intermediate Spanish20NoneULSP20030Further Spanish20None	ULIT30010	Beginners' Italian	20	None
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ULKR10010Beginners' Korean20NoneULPT10010Beginners' Portuguese20NoneULRU10010Beginners' Russian20NoneULRU20010Intermediate Russian20NoneULSP10010Beginners' Spanish20NoneULSP10050Beginners Spanish (Fast track)20NoneULSP20010Intermediate Spanish20NoneULSP20010Intermediate Spanish20NoneULSP20020Intermediate Spanish20NoneULSP20030Further Spanish20None	ULJA20110	Pre-Intermediate Japanese	20	None
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ULSP20020Intermediate Spanish20NoneULSP20030Further Spanish20None			20	None
ULSP20030 Further Spanish 20 None			20	
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# 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
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
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.

Code	Title	Credits	Theme
BMAN20242	Introduction to Corporate Finance & Financial Instruments	10	None
BMAN20792	Technology Strategy & Innovation 1	10	None
BMAN20821	New Product Development and Innovation	10	None
BMAN20832	Marketing	10	None
BMAN21012	Global Contexts of Business and Management	10	None
BMAN21061	Introduction to Management Information Systems	10	None
BMAN30010	Management of Knowledge and Innovation	20	None
BMAN30021	Marketing	10	None
BMAN30022	Strategy	10	None
BMAN30042	Human Resource Management	10	None
BMAN30202	Cases in Digital Transformation	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
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
UCIL20032	Leadership in Action Online Unit	10	None
UCIL20092	The Crisis of Nature: Issues in Environmental History	10	None
UCIL20102	Multilingual Manchester	10	None
UCIL20111	Core Themes in Animation and Visual Culture of Post War Japan	10	None
UCIL20112	Understanding Mental Health	10	None
UCIL20112	Understanding Mental Health	10	None
UCIL20112	AI: Robot Overlord, Replacement or Colleague?	10	None
UCIL20122	AI: Robot Overlord, Replacement of Colleague?	10	None
UCIL20122	Are we alone?	10	None
UCIL20282	The Information Age	10	None
UCIL20282	From Cholera to Aids: A Global History of Epidemics	10	None
UCIL20331 UCIL20882	An Introduction to Current Topics in Biology	10	None
UCIL20882	Leadership of Learning	10	None
UCIL21002	Bioethics: Contemporary Issues in Science and Biomedicine	10	None
UCIL21202 UCIL21301	Communicating with Confidence	10	None
UCIL21301 UCIL21302	Communicating with Confidence	10	None
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UCIL21331	Becoming an inspirational individual	10 10	None
UCIL21802	Body, Health and Well-Being	-	
UCIL22001	Essential Enterprise	10	None
UCIL22002	Essential Enterprise	10	None
UCIL22501	Global Citizenship and Sustainability	10	None
UCIL23302	Science and Civilisation in East Asia	10	None
UCIL24141	Science, Technology and Democracy	10	None
UCIL29002	Physics & The Grand Challenges of Today	10	None
UCIL30232	Health, Development and People	10	None
UCIL30832	Madness and Society in the Modern Age	10	None
UCIL30832	Madness and Society in the Modern Age	10	None
UCIL31212	The Nuclear Age	10	None
UCIL32011	From Sherlock Holmes to CSI	10	None
UCIL33201	Climate Change and Society	10	None
ULAR20110	Intermediate Arabic	20	None
ULAR20210	Pre-intermedite Arabic	20	None
ULAR21110	Intermediate Arabic NC	20	None
ULBS20011	Intro to British Sign Language S1	10	None
ULBS20012	British Sign Language	10	None
ULBS20022	Introduction to British Sign Language - Part 2	10	None
ULCH20020	Post-intermediate Mandarin Chinese	20	None
ULCH20021	Post-intermediate Chinese - first semester	10	None
ULCH20110	Pre-intermediate Mandarin Chinese	20	None
ULCH30030	Advanced Mandarin Chinese	20	None
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ULDU20010	Intermediate Dutch	20	None
0 == 0 = 0 0 = 0		20	
ULFR20010	Intermediate French	20	None
ULFR20020	Post-intermediate French	20	None
ULFR20030	Further French	20	None
ULFR20110	Pre-Intermediate French	20	None
ULFR30010	Beginners' French - Enhanced	20	None
ULFR30022	Introductory French - Enhanced	10	None
ULGE20010	Intermediate German	20	None
ULGE20020	Post-Intermediate German	20	None
ULGE20030	Further German	20	None
ULGE20110	Pre-intermediate German	20	None
ULGE30010	Beginners' German Enhanced	20	None
ULGE30021	Introductory German	10	None
ULGE30022	Introductory German (A1.1+) - Enhanced	10	None
ULGE30030	Advanced German	20	None
ULHB20030	Intermediate Hebrew	20	None
ULIT20010	Intermediate Italian	20	None
ULIT20020	Post-Intermediate Italian	20	None
ULIT20110	Pre-Intermediate Italian	20	None
ULIT30010	Beginners' Italian	20	None
ULIT30022	ULIT30022 - Introductory Italian (A1) - Enhanced	10	None
ULJA20010	Intermediate Japanese	20	None
ULJA20020	Post-intermediate Japanese	20	None
ULJA20110	Pre-Intermediate Japanese	20	None
ULJA20112	Pre-intermediate Japanese	10	None
ULJA21010	Intermediate Japanese	0	None
ULRU20010	Intermediate Russian	20	None
ULSP20010	Intermediate Spanish	20	None
ULSP20020	Intermediate Spanish	20	None
ULSP20030	Further Spanish	20	None
ULSP20110	Pre-Intermediate Spanish	20	None
ULSP30010	Beginners Spanish (Enhanced)	20	None
ULSP30022	Introductory Spanish (Enhanced)	10	None
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