

School of Life and Medical Sciences

Title of Programme: BSc Extended Degree in Science Initial Year

Programme Code: IDKIYS


Course Code(s): LMIYSAM Subjects Allied to Medicine (SAM)  
LMIYSBS Biological Science (BS)  
LMIYSPS Physical Sciences (PS)  
LMIYSMT Mathematics (MT)

For Collaborative: External Validation at North Hertfordshire College, West Herts College, Hertford Regional College and Oaklands College

## Programme Specification

This programme specification is relevant to students entering:  
21 September 2020

Associate Dean of School (Academic Quality Assurance):  
Dr Stefanie Schmeer

Signature 

A programme specification is a collection of key information about a programme of study (or course). It identifies the aims and learning outcomes of the programme, lists the modules that make up each stage (or year) of the programme, and the teaching, learning and assessment methods used by teaching staff. It also describes the structure of the programme, its progression requirements and any programme-specific regulations. This information is therefore useful to potential students to help them choose the right programme of study, to current students on the programme, and to staff teaching and administering the programme.

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### Summary of amendments to the programme:

Section	Amendment

If you have any queries regarding the changes please email [AQO@herts.ac.uk](mailto:AQO@herts.ac.uk)

# Programme Specification BSc Extended Degree in Science Initial Year

This programme specification (PS) is designed for prospective students, enrolled students, academic staff and potential employers. It provides a concise summary of the main features of the programme and the intended learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the teaching, learning and assessment methods, learning outcomes and content for each module can be found in Definitive Module Documents (DMDs) and Module Guides.

## Section 1

<b>Awarding Institution/Body</b>	University of Hertfordshire
<b>Teaching Institution 1</b>	<b>North Hertfordshire College (NHC)</b>
<b>University/partner campuses</b>	Stevenage
<b>Teaching Institution 2</b>	<b>West Herts College (WHC):</b> Note: *Physical Sciences – suspended for September 2020 entry *Mathematics – suspended for September 2020 entry
<b>University/partner campuses</b>	Watford
<b>Teaching Institution 3</b>	<b>Hertford Regional College (HRC)</b> Note: *Physical Sciences pathways – withdrawn *Mathematics pathways– withdrawn
<b>University/partner campuses</b>	Broxbourne
<b>Teaching Institution 4</b>	<b>Oaklands College (OAK):</b> Note: *Physical Sciences pathways– withdrawn *Mathematics pathways– withdrawn
<b>University/partner campuses</b>	Welwyn Garden City
<b>Final Qualification</b>	Not applicable
<b>All Final Award titles (Qualification and Subject)</b>	Not applicable
<b>FHEQ level of award</b>	3
<b>UCAS code(s)</b>	B900, B902, F900, G101
<b>Language of Delivery</b>	English

### A. Programme Rationale

The BSc Extended Degree in Science Initial Year programme is designed to offer alternative entry into a range of science degree programmes at the University of Hertfordshire. It offers a good grounding in biology, chemistry, physics and mathematics and provides options that enable a student to prepare in more specialized areas of science relevant to their progression choice.

The Extended Degree in Science Initial Year is managed and delivered by North Hertfordshire College, West Herts College, Hertford Regional College and Oaklands College. The programme has proved both popular and successful since it was first introduced in 1997. The colleges are large further education colleges where provision is designed to meet the full range of needs of an increasingly diverse student population.

Students are taught over two semesters (A and B). In semester A, core introductory modules are studied in biology, chemistry and physics and students will complete an individual project. In semester B, students will take one core module and choose a further three optional modules depending on the Honours degree they intend to progress to once the Initial Year has been successfully completed. There is no final award at the end of the Extended Degree Science Initial Year, nor are any interim awards available to students.

## B. Educational Aims of the Programme

The programme has been devised in accordance with the University's graduate attributes of programmes of study as set out in [UPR TL03](#).

### Additionally this programme aims to:

- Provide students with the knowledge, scientific academic and independent study skills to embark on a higher education programme in the sciences.
- Provide progression to appropriate Honours degree programmes
- Enable students to develop knowledge, understanding and investigative skills relevant to a broad education in the biological and physical sciences
- Support the development of the transferable skills and attributes necessary for the students' future professional development through academic study and independent study skills to embark on a higher education programme in the sciences.

## C. Intended Learning Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills and other attributes in the following areas. The programme outcomes are referenced to the QAA benchmark statements for Biosciences, Biomedical Science, Chemistry, Mathematics, Statistics and Operational Research, Physics, Astronomy and Astrophysics and the Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (2014) and relate to the typical student. Additionally, the SEEC Credit Level Descriptors for Further and Higher Education (2016) have been used as a guiding framework for curriculum design.

Knowledge and Understanding	Teaching and learning methods	Assessment strategy
<p>A1- The key concepts and skills fundamental to science</p> <p>A2- The specific knowledge and skills appropriate to entry into level one of their chosen discipline.</p> <p>A3- Solve a range of numerical problems using a range of mathematical methods</p> <p>A4-Evaluate and report scientific information, showing independent thought in modules, culminating in a written project.</p>	<p>Acquisition of knowledge and understanding is through a combination of lectures, laboratory classes, workshops building towards an individual project (A1 and A2). A3 is acquired through the lecture and tutorial programme in Mathematics for Scientists and extended in the optional Mathematics and Advanced Mathematics modules. A4 is acquired throughout the course and the individual Project module. Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject.</p>	<p>Knowledge and understanding are assessed through a variety of methods, including formative assessment opportunities, which are built in to each module, a combination of unseen examinations, in course tests, laboratory reports and coursework assignments (A1, A2 and A3), whilst A4 is assessed through the Individual Project module, for formative purposes.</p>
Intellectual skills	Teaching and learning methods	Assessment strategy
<p>B1-Display appropriate laboratory skills including safe working practice.</p> <p>B2-Gather, apply and analyse information from different sources</p> <p>B3-Understand the scientific methods. Evaluate</p>	<p>Intellectual skills are developed through laboratory classes, coursework assignments for all the modules (B1 and B2). B3 and B4 are particularly addressed in the Individual Project module. Throughout, the learner is encouraged to develop</p>	<p>Intellectual skills are assessed through practical work, throughout the programme (B1). B2 and B3 are covered by coursework assessments in all modules where students are expected to find and evaluate</p>

evidence using quantitative and/or qualitative methods B4-Develop awareness of ethical practice and the possible and commercial applications of science	intellectual skills further by independent study	information considering value and bias. B4 is assessed in the individual project report.
<b>Practical skills</b>	<b>Teaching and learning methods</b>	<b>Assessment strategy</b>
C1- Perform experiments safely in the laboratory for all sciences. C2- Independently research, plan and carry out a scientific investigation	Practical skills are developed through supervised practical work embedded in teaching methods.  Semester A activities support Semester B project planning	Practical skills are assessed through timed investigations and their interpretation (C1).  The individual project module comprises of supervised, student led, experiential learning. It is assessed through a lengthy scientific report involving research (C2).
<b>Transferable skills</b>	<b>Teaching and learning methods</b>	<b>Assessment strategy</b>
D1-Communicate effectively using a variety of formats. D2-Use a range of information sources effectively. D3-Work effectively both alone and as part of a group D4-Be numerate at a level appropriate to their chosen discipline. D5-Use information, analyse technology to source, and present information.	Transferable skills are developed throughout the programme and through activities (D1, D2, D3). Acquisition of D4 is through assignments in Maths for Science and is applied throughout the other modules. Students are expected to make use of IT for in-class presentations, research and for the preparation of assignments (D5). Throughout, the learner is encouraged to develop transferable skills by maintaining a record of evidence and completing a personal development plan.	Transferable skills are assessed through laboratory reports and coursework assignments throughout the course (D1, D2 and D5). D1-5 are assessed through workshops, laboratory exercises and the individual project (working alone). Acquisition of D4 is through assignments and activities in Maths for Science.

## D. Programme Structures, Features, Levels, Modules, and Credits

The programme is offered in full time (1 year) mode as four alternative courses:

Initial Year for Extended Degree Science - Subjects Allied to Medicine (SAM): LMIYSAM

Initial Year for Extended Degree Science - Biological Science (BS): LMIYSBS

Initial Year for Extended Degree Science - Physical Sciences (PS): LMIYSPS

Initial Year for Extended Degree Science - Mathematics (MT): LMIYSMT

The courses do not lead to a formal award, but successful completion permits progression to Year 1 of a range of science programmes run at the University of Hertfordshire. Entry is at Level 3 (with A-level or equivalent qualifications). Intake is normally in Semester A (September).

### Programme Structure

The programme structure and progression information below (Table 1) is provided for the completion of the Initial Year (Year 0) of the Extended Science degree (for detailed progression routes and tariffs see Section G). The Programme Learning Outcomes detailed above are developed and assessed through the constituent modules. Table 2 (in section 2) identifies where each learning outcome is assessed.

Table 1a Outline Programme Structure

**Mode of study** Full time**Entry point** Semester A**Level** 0

<b>Compulsory Modules (all courses)</b> Module Titles	Module Code Prefix	North Hertfordshire College	West Herts College	Hertford Regional College	Oaklands College	Credit Points	Language of Delivery	% examination	% coursework	% Practical	Semesters
Introductory Biology	0FHH00	13	22	41	42	15	English	0	100	0	A
Introductory Chemistry	0FHH00	14	23	43	44	15	English	0	100	0	A
Introductory Physics	0FHH00	15	24	46	47	15	English	0	100	0	A
Individual Project	0FHH00	18	25	48	49	15	English	0	100	0	B

(From optional modules below, students must choose Mathematics for Scientists, or Mathematics, in Semester A)

<b>Optional Modules</b> Module Titles	Module Code Prefix	North Hertfordshire College	West Herts College	Hertford Regional College	Oaklands College	Credit Points	Language of Delivery	% examination	% coursework	% Practical	Semesters
Mathematics for Scientists	0FHH00	16	26	50	51	15	English	0	100	0	A
Mammalian Physiology*	0FHH00	21	28	52	53	15	English	40	60	0	B
Applied and Environmental Biology Chemistry*	0FHH00	20	27	64	54	15	English	40	60	0	B
Mathematics	0FHH00	10	29	55	56	15	English	40	60	0	B
Advanced Mathematics†	0FHH00	17	30	57	58	15	English	0	100	0	A,B
Physics	0FHH00	19	31	59	60	15	English	40	60	0	B
Statistics	0FHH00	11	32	61	62	15	English	40	60	0	B
	0FHH00	12	33	63	65	15	English	40	60	0	B

(\*normally compulsory for Subjects Allied to Medicine LMIYSAM)

(†compulsory for Physical Sciences LMIYSPS and Mathematics LMIYSMT)

Progression to level 4 requires a minimum of 120 credits, the meeting of tariff grades, and in some cases specific module grades and completion of a satisfactory personal statement and successful interview, all of which are reviewed and set each year. In addition, some programmes require satisfactory Occupational Health clearance and Enhanced Disclosure and Barring Service (DBS) checks (see Section G for detailed information).

#### Honours classification

Progression to level 4 involves transfer to a BSc (Hons) or MPharm programme. The University has approved structure and assessment regulations common to all programmes. Full details are provided in [UPR AS14](#), Section D.

### Final and interim awards

The programme does not provide any final or interim awards.

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## Programme-specific assessment regulations

The programme complies with the University's academic regulations (in particular, [UPR AS11](#), [UPR AS12/UPR AS13](#) (*delete as applicable*) and [UPR AS14](#)) with the exception of those listed below, which have been approved by the University:

Further points of clarification and interpretation relevant to this specific programme are given below:

- An overall pass grade in 120 credits is the minimum requirement for progression to Year 1 (Level 4) of participating programmes, with some requiring higher specific grades and/or the successful completion of an interview for progression, according to the tariff set each year.
- Students entering the Initial Year without the requisite GCSEs or equivalent, will need to acquire these qualifications before progression to Year 1.
- Students achieving at least 90, but less than 120, credits will be offered the option to progress on to the Foundation Degree in Sports Studies.

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## E. Management of Programme & Support for student learning.

### Management

The programme is managed and administered through:

- Head of Teaching & Learning, Higher Education (North Hertfordshire College), Director of Higher Level Learning (West Herts College), Higher Education Development Manager (HRC) and Higher Education Manager (OAK)
- A Programme Manager and a Deputy Programme Manager with responsibility for the day to day management of the programme and admissions at each College. The Programme Manager will help students to understand the course/programme structure, take overall responsibility for the constituent courses of the programme including induction, administration and the production of the AMER.
- A Collaborative Partnership Leader, who provides support and facilitates communication between the College and the University and chairs the Programme Committee.
- Module leaders who are responsible for the individual modules.
- Cross-college Module Leaders who are responsible for ensuring parity of delivery of the equivalent module at each of the colleges.
- A programme committee, the membership of which includes: Collaborative Partnership Leader (Chair); Programme Administrator (Clerk); Programme Manager (PM)/Deputy PM from the College (or alternate); One full-time student representative per cohort (~25) from the college (PM or alternate, CPL and students must be present to be quorate).
- The following may also attend the Committee: Dean of School; School Administration Manager; Associate Dean Academic Quality Assurance; Appropriate Heads of Department at UH; Appropriate Heads of Department/Deputy Heads of Department at Colleges; Manager, UK Partnerships at UH; College HE Managers; College and University Lecturers who have taught on the programme; Module Moderators at UH; Admissions Tutor; LIS representative, UH; College LRC representatives; Other Student Representatives; Subject Specialist; Subject Advisors.

### Support

Students are supported by;

- An induction week at the beginning of each new academic session.
- An extensive Learning Resources Centre, incorporating a library and computer centre.
- Online information and learning materials and support through the College's Managed Learning Environment (StudyNet), a College wide set of systems and tools for educational delivery.

- Student handbooks.
- A Programme Manager to help students understand the course structure.
- A Collaborative Partnership Leader to liaise between the College and University, and to aid progression.
- An Administrator to help with module registration, liaison with local authorities and examination arrangements and results.
- Module Leaders to help students understand the aims, outcomes and organization of the modules.
- Personal tutors to provide pastoral and academic support.
- A personal tutor for the Individual Project module.
- A substantial Student Services Centre that provides advice on issues such as finance, University regulations, legal matters etc.
- An Accommodation Office.
- An Overseas Students Centre.
- A Disabled Student Tutor.
- Student representatives on programme committees and student council.
- The Students' Union.
- Careers and Employment Service.

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## F. Other sources of information

In addition to this Programme Specification, the University publishes guidance to registered students on the programme and its constituent modules:

- A Programme (or Student) Handbook;
- A Definitive Module Document (DMD) for each constituent module;
- A Module Guide for each constituent module.

The [Ask Herts](#) website provides information on a wide range of resources and services available at the University of Hertfordshire including academic support, accommodation, fees, funding, visas, wellbeing services and student societies.

As a condition of registration, all students of the University of Hertfordshire are required to comply with the University's rules, regulations and procedures. These are published in a series of documents called 'University Policies and Regulations' (UPRs). The University requires that all students consult these documents which are available on-line, on the UPR web site, at: <http://www.herts.ac.uk/secreg/upr/>. In particular, [UPR SA07](#) 'Regulations and Advice for Students' Particular Attention - Index' provides information on the UPRs that contain the academic regulations of particular relevance for undergraduate and taught postgraduate students.

In accordance with section 4(5) of the Higher Education and Research Act 2017 (HERA), the UK Office for Students (OfS) has registered the University of Hertfordshire in the register of English higher education providers. The Register can be viewed at: <https://www.officeforstudents.org.uk/advice-and-guidance/the-register/the-ofs-register/>. Furthermore, the OfS has judged that the University of Hertfordshire delivers consistently outstanding teaching, learning and outcomes for its students. It is of the highest quality found in the UK. Consequently, the University received a Gold award in the 2018 Teaching Excellence and Student Outcomes (TEF) exercise. This award was made in June 2018 and is valid for up to 3 years. The TEF panel's report and conclusions can be accessed at: <https://www.officeforstudents.org.uk/advice-and-guidance/teaching/tef-outcomes/#/provider/10007147>

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## G. Entry requirements

The normal entry requirements for the programme are:

For current entry tariff point requirements, please refer to the relevant page for the Course on the University website or on the online prospectus.

The programme is subject to the University's Principles, Policies and Regulations for the Admission of Students to Undergraduate and Taught Postgraduate Programmes (in [UPR SA03](#)), along with associated procedures. These will take account of University policy and guidelines for assessing accredited prior certificated learning (APCL) and accredited prior experiential learning (APEL).

48 UCAS points, which can be made up of at least a full 4-unit A level (A2), a BTEC National Award or equivalent (please note the UCAS points cannot be made up of only AS levels).

IB - 48 points with a minimum of 1 HL subject at grade 4 or above (with the remaining points to come from a combination of HL, SL and Core).

#### together with

GCSE Maths, English Language and Science at grade 4 or above (Grade C under the old grading structure) or equivalent.

Applications are also welcomed from mature applicants who are considered on the basis of employment experience in addition to formal qualifications.

Applicants intending to progress to professional programmes at the University of Hertfordshire that require an interview and a satisfactory Enhanced Disclosure and Barring Service (DBS) and Occupational Health check will be made aware of this requirement when applying to the college.

## H. Progression requirements

Table 2. Progression requirements

<b>Subjects Allied to Medicine (SAM) Course: LMIYSAM Course instances: IYSAMN1F/IYSAMW1F (UCAS B902)</b>					
<b><i>With the exception of Biomedical Sciences, Pharmacology and Nutrition, progression requires a completion of a satisfactory personal statement, a formal interview, a satisfactory Disclosure and Barring Service (DBS) check and a pass in occupational health</i></b>					
<b>JACS Code</b>	<b>Course</b>	<b>Title</b>	<b>Overall mean</b>	<b>With a minimum</b>	<b>Other</b>
B740	HHNURA	BSc (Hons) Nursing (Adult)	55%	50% in Mammalian Physiology 50% in Maths for Scientists	Numeracy test, literacy test, interview focusing on the values of nursing. Grade 4 (C) or above in 5 GCSE including Maths and English or university equivalents.
B730	HHNURC	BSc (Hons) Nursing (Child)	55%	50% in Mammalian Physiology 50% in Maths for Scientists	The same as for HHNURA plus work or voluntary experience with children.
B761	HHNURLD	BSc (Hons) Nursing (Learning Disabilities)	55%	50% in Mammalian Physiology 50% in Maths for Scientists	The same as for HHNURA
B760	HHNURMH	BSc (Hons) Nursing (Mental Health)	55%	50% in Mammalian Physiology 50% in Maths for Scientists	The same as for HHNURA



B720	HHMW	BSc (Hons) Midwifery	60%	60% in Mammalian Physiology 60% in Introductory biology	Offer also subject to a satisfactory second reference. 5 GCSEs including Maths, English Language and Science at grade 4 (C) or above (or equivalent)
B950	HHPAS	BSc(Hons) Paramedic Science	60%	70% in Mammalian Physiology, 70% in Chemistry	Full clean manual UK driving licence with a provisional C1 category
CB63	HHSP0	BSc(Hons) Sports Therapy	60%	40% in all modules including Maths modules	
B410	HHDIET	BSc(Hons) Dietetics	60%	50% in Maths for Science, 70% in Chemistry, 70% Mammalian Physiology	
B160	HHPHY	BSc(Hons) Physiotherapy	70%	70% in Mammalian Physiology	
B230	HHMPHA	Master of Pharmacy (MPharm)	70%	70% in Chemistry, 50% in Maths for Science	
	LMPSC	BSc(Hons) Pharmaceutical Science	60%	60% in Chemistry, and 50% in Maths for Science	
B821	HHRGI	BSc(Hons) Diagnostic Radiography & Imaging	60%	60% in Mammalian Physiology, 55% in Maths for Science Physics advised	Clinical visit to a Radiology dept.
B822	HHRTO	BSc(Hons) Radiotherapy & Oncology	60%	60% in Mammalian Physiology, 55% in Maths for Science Physics advised	Clinical visit to a Radiotherapy dept.
B400	HHNUT	BSc(Hons) Nutrition	60%	60% in Biology 60% in Chemistry	
B210	HHBIOPHA	BSc(Hons) Pharmacology	50%		
B990	HHBIOBIM	BSc(Hons) Biomedical Science	60%		

<b>Biological Science (BS) Course: LMIYSBS Course instances: IYSBN1F/IYSBW1F (UCAS B900)</b>					
JACS Code	Course	Title	Overall mean	With a minimum	Other
C100	HHBIOBLS	BSc(Hons) Biological Sciences	40%		
C700	HHBIOMOL	BSc(Hons) Molecular Biology	50%		
C700	HHBIOBIC	BSc(Hons) Biochemistry	50%	50% in Chemistry	
C602	HHSPS	BSc(Hons) Sports Studies	60%		Requires an interest in sport e.g. through participation, coaching, etc, and commitment to attaining sports coaching awards

C620	HHSPS	BSc (Hons) Physical Activity and Sports Development	60%		As for Sports Studies
C610	HHSPS	BSc (Hons) Sports Coaching	60%		As for Sports Studies
N880	HHSPS	BSc (Hons) Sports Business Management	60%		As for Sports Studies
C600	HHSP0	BSc(Hons) Sports and Exercise Science	60%		
C800	HHPSY	BSc(Hons) Psychology	60%	50% in Maths modules	

<b>Physical Sciences (PS) Course: LMIYSPS Course instances: IYSPSN1F/IYSPSW1F (UCAS F900)</b>					
JACS Code	Course	Title	Overall mean	With a minimum of:	Other
F510	EIPHYAP	BSc(Hons) Astrophysics	50%	50% in Advanced Mathematics, 50% in Physics modules	
F300	EIPHY	BSc (Hons) Physics	50%	50% in Advanced Mathematics, 50% in Physics modules	
F800	HHGEG	BSc (Hons) Geography	50%		
F750	HHGEE	BSc (Hons) Environmental Management and Ecology	50%		

<b>Mathematics (MT): LMIYSMT Course instances: IYSPMTN1F/IYSPMTW1F (UCAS G101)</b>					
JACS Code	Course	Title	Overall mean	With a minimum of:	Other
G100	EIMM	BSc(Hons) Mathematics	50%	50% in Advanced Mathematics 40% in Physics modules	
GN13	EIMM	BSc(Hons) Financial Mathematics	50%	50% in Advanced Mathematics 40% in Physics modules	

If you would like this information in an alternative format please contact:  
Katie Parkash: [k.parkash@herts.ac.uk](mailto:k.parkash@herts.ac.uk) or [icadmin@herts.ac.uk](mailto:icadmin@herts.ac.uk)

If you wish to receive a copy of the latest Programme Annual Monitoring and Evaluation Report (AMER) and/or the External Examiner's Report for the programme, please email a request to [aqo@herts.ac.uk](mailto:aqo@herts.ac.uk)

## BSc Extended Degree in Science Initial Year

**Table 3: Development of Intended Programme Learning Outcomes in the Constituent Modules**

This map identifies where the programme learning outcomes are assessed in the constituent modules. It provides (i) an aid to academic staff in understanding how individual modules contribute to the programme aims (ii) a checklist for quality control purposes and (iii) a means to help students monitor their own learning, personal and professional development as the programme progresses.

		Programme Learning Outcomes (identified in section 1 and the following page)																			
		Module codes				Knowledge & Understanding				Intellectual Skills				Practical Skills		Transferable Skills					
Module Title		Prefix	NHC	WHC	HRC	OAK	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	D1	D2	D3	D4	D5
Level 3	Introductory Biology	0FHH00	13	22	41	42	x	x			x	x	x		x		x	x			x
	Introductory Chemistry	0FHH00	14	23	43	44	x	x	x		x	x	x		x		x	x			
	Introductory Physics	0FHH00	15	24	46	47	x	x	x		x	x	x	x	x		x	x	x		x
	Individual Project	0FHH00	18	25	48	49	x	x	x	x	x	x	x	x	x	x	x	x	x		
	Mathematics for Scientists	0FHH00	16	26	50	51	x	x	x			x	x			x	x	x	x	x	
	Mammalian Physiology	0FHH00	21	28	52	53	x	x		x	x	x	x		x		x	x	x		x
	Applied and Environmental Biology	0FHH00	20	27	64	54	x	x	x		x	x	x		x		x	x	x		
	Chemistry	0FHH00	10	29	55	56	x	x	x		x	x	x		x		x	x	x		
	Mathematics	0FHH00	17	30	57	58	x	x	x				x				x		x	x	
	Advanced Mathematics	0FHH00	19	31	59	60	x	x	x				x				x		x	x	
	Physics	0FHH00	11	32	61	62	x	x	x	x	x			x	x	x	x	x			
	Statistics	0FHH00	12	33	63	65	x	x	x			x	x				x	x	x	x	x

## KEY TO PROGRAMME LEARNING OUTCOMES

### Knowledge and Understanding

- A1. Acquire a broad knowledge of key concepts and skills fundamental to science.
- A2. Acquire the specific knowledge and skills appropriate to entry into level one of their chosen discipline.
- A3. Solve a range of numerical problems using a range of mathematical methods.
- A4. Evaluate and report scientific information in a written project

### Intellectual Skills

- B1. Display appropriate laboratory skills including safe working practice where appropriate
- B2. Gather information from different sources
- B3. Display an awareness of the existence and nature of value judgments
- B4. Develop awareness of ethical practice and the possible and commercial applications of science

### Practical Skills

- C1. Perform experiments safely in the laboratory for all the sciences.
- C2. Independently research, plan and carry out a scientific investigation

### Transferable Skills

- D1. Communicate effectively using a variety of formats
- D2. Use effectively a range of information sources
- D3. Work efficiently both alone and as part of a group
- D4. Be numerate at a level appropriate to their chosen discipline
- D5. Use information and analyse with technology to source and present information

## Section 2

### Programme management

**Relevant QAA subject benchmarking statements**

**Type of programme**

**Date of validation/last periodic review**

**Date of production/ last revision of PS**

**Relevant to level/cohort**

**Administrative School**

Biosciences, Biomedical Science, Chemistry, Mathematics, Statistics and Operational Research  
Physics, Astronomy and Astrophysics  
Undergraduate  
April 15  
June 2018  
Choose a level: Level 3 entering September 2020  
School of Life and Medical Sciences

Table 3 Course structure

Course details		
Course code	Course description	HECOS
LMIYSAM	Initial Year for Extended Degree in Science - Subjects Allied to Medicine	100260
LMIYSBS	Initial Year for Extended Degree in Science – Biological Sciences	100345
LMIYSPS	Initial Year for Extended Degree in Science – Physical Sciences	100424
LMIYSMT	Initial Year for Extended Degree Science - Mathematics	100403