# University of the West of Scotland Undergraduate Programme Specification

Session: 2023/24

Last modified: 27/04/2023 12:30:00

Status: Pending

Named Award Title:	BSc (Hons) M	BSc (Hons) Mathematics 2023 Single				
Award Title for Each Award:	BSc (Hons) Mathematics 2023 BSc Mathematics Dip HE Mathematics Cert HE Mathematics					
Date of Validation:	June 2023					
Details of Cohorts Applies to:	Any new students entering at L7 or L8 in Session 2023/24 and any L7 students from Session 2022/23 continuing to L8 in Session 2023/24					
Awarding Institution/Body:		University of the West of Scotland				
Teaching Institution:	University of the West of Scotland					
Language of Instruction & Examination	English					
Award Accredited By:						
Maximum Period of Registration:		8 years				
Mode of Study:		Full Time				
Campus:		Paisley				
School:		School of Computing, Engineering and Physical Sciences				
Programme Board		Physical Sciences				
Programme Leader:	Dr Alan J. Walker					

#### **Admission Criteria**

Candidates must be able to satisfy the general admission requirements of the University of the West of Scotland as specified in Chapter 2 of the University Regulatory Framework together with the following programme requirements:

# **SQA National Qualifications**

Year 1: HIGHERS: BBBC including Mathematics plus English at SCQF Level 5 (e.g. National 5, Standard Grade (Grade 3 or above), Intermediate 2).

Year 2: ADVANCED HIGHERS: CCD including Mathematics plus English at SCQF Level 5 (e.g. National 5, Standard Grade (Grade 3 or above), Intermediate 2).

#### or GCE

Year 1: A-LEVEL: CCC including Mathematics plus GCSE (Grade C or above) in English.

Year 2: A-LEVEL: BBC including Mathematics plus GCSE (Grade C or above) English.

#### or SQA National Qualifications/Edexcel Foundation

Year 1: relevant HNC, which includes Higher National Unit: Engineering Mathematics 1 (H7K0 33).

Year 2: relevant HND, which includes Higher National Units: Engineering Mathematics 2 (H7K1 34) and Engineering Mathematics 3 (H7K2 34).

#### Other Required Qualifications/Experience

Year 1: Irish Leaving Certificate: BBBC2 including Mathematics or International Baccalaureate (IB) Diploma: 26 points (including Mathematics plus two other subjects at Higher level).

Year 2: BTEC Extended Diploma: DDM, Scottish Baccalaureate in Science: Advanced entry to Year 2 will be dependent on subjects studied and grade of award or International Baccalaureate (IB) Diploma: 30 points including Mathematics, four subjects to be at Higher level.

#### Further desirable skills pre-application

A willingness to learn, engage, and work closely with academics and peers alike.

#### **General Overview**

Mathematics, known as the Queen of the Sciences, is concerned with the description and logic of shape, quantity, change, and arrangement. This BSc (Hons) Mathematics programme presents how mathematics underpins and describes the ever-changing world around us.

This programme will provide a broad understanding of key areas of mathematics with options to individualise the content at the later levels. Further, it is designed to fulfil the requirements of the QAA subject benchmark statement for Mathematics, Statistics and Operational Research (MSOR) (2015) and takes cognizance of the Bond Review in 2018 (The Era of Mathematics).

The overall aim of the programme is to develop individuals with a range of transferable graduate skills, who will acquire Honours-level knowledge and skills in Mathematics. Students electing to take the relevant options at Levels 9 and 10 will also acquire Honours-level knowledge and skills in Statistics. The programme offers the fundamentals of Mathematics and Statistics as core science. Presentations, group exercises and computer laboratory sessions develop applied practical and communication skills, preparing students for excelling in the 21st Century workplace.

Across the four years of the programme, increasingly complex understanding of Mathematics and Statistics, viz. Algebra, Calculus, Probability & Statistics, is developed. At later stages in the programme, students choose to study topics from a range of options including statistics, finance, number theory, numerical analysis, mathematical biology and theoretical physics.

In accordance with the relevant benchmarks, graduates should be able to demonstrate:

- a sound understanding of the basic body of knowledge for the course of study including calculus and linear algebra;
- the attainment of a suitable level of skill in calculation and manipulation within this basic body of knowledge and some capability to solve problems formulated within it;
- the application of core concepts and principles in well-defined contexts, showing judgement in the selection and application of tools and techniques;
- an understanding of logical arguments, identifying the assumptions made and the conclusions drawn;
- a familiarity with the notion of mathematical modelling and the attainment of a suitable level of skill in comprehending problems, formulating them mathematically and obtaining solutions by appropriate methods;
- an ability to communicate straightforward arguments and conclusions accurately and clearly;
- competent use of appropriate computer technology, and;
- the ability to manage their own learning and make use of appropriate resources.

The programme aims to consolidate and further develop, in students, a range of graduate skills and attributes that are transferable to other areas of study and professional employment. Transferable skills which graduates can expect to consolidate and further develop include knowing how to access and apply relevant research findings; communicating effectively with a range of audiences; engaging in professional dialogue with peers and senior colleagues; undertaking critical analysis, evaluation and synthesis of ideas, concepts, information and issues; exercising autonomy and initiative; and working

with others and taking a leading role. These are aligned with the UWS Graduate Attributes, which states that UWS graduates should be:

- universal globally relevant with comprehensively applicable abilities, skills and behaviours;
- work ready dynamic and prepared for employment in complex, ever-changing environments which require lifelong learning and resilience, and;
- successful as a UWS graduate with a solid foundation on which to continue succeeding and realising (my) potential, across various contexts.

The programme will encourage the student to engage in lifelong learning, study, and enquiry and to appreciate the value of mathematics and statistics to society. It will also assist the student to develop the skills required for both autonomous practice and teamworking.

Following graduation from the BSc (Hons) Mathematics programme, graduates will leave UWS with the options to work in the finance, research, cyber security, and engineering industries, and much more. Opportunities for further study

Honours graduates may choose to pursue further study of Mathematics and/or Statistics through Masters or Doctoral programmes at this or other universities. Further, graduates may choose to study for a Professional Graduate Diploma in Education (PGDE) Secondary, at this or other universities.

#### Teaching, learning and assessment

Formal lectures will be supported by a range of blended learning activities such as small group tutorials, workshops, computer laboratory classes and use of the Aula Virtual Learning Environment (VLE). These activities will employ a range of learning and teaching methodologies including group work, investigations, problem-based learning, student presentations and online tutor/student-led discussions. Resources such as industry-standard mathematical, computational and statistical software packages (e.g. Maxima, Python, SPSS and R), and interactive whiteboards, will be used, as appropriate, to develop student learning.

Students will share some modules with UWS students from a range of programmes, including, but not limited to, Mathematics with Education, Chemistry, Forensic Science, and the suite of Physics programmes.

Within the Aula VLE, students will experience a range of e-learning methods. They will be required to remotely access set and extension readings and other course materials, and communicate both online and asynchronously with peers, whilst being supported by tutors, to address learning tasks. Students are required to undertake and benefit from significant independent learning in each module. Student e-handbooks and other material made available to students will give more detailed information on the particular (combination of) learning and teaching methodologies that will be used for timetabled student sessions. This will clarify for students both their expectations for scheduled sessions, and their expectations for the overall balance of learning and teaching methodologies to be used during the programme.

Ongoing formative assessment across the programme will provide feedback to students on their developing thinking on subject knowledge and skills, and professional abilities. Summative assessment of academic study will take the form of class tests, written and numerical assignments, oral presentations, problem sheets, examinations, and a dissertation.

# Support and Guidance

Student support and guidance is incredibly important. In addition to support provided by Programme Leaders, there are two key roles within the School's student support network: Personal Tutors and Year Leaders. They provide guidance and advice on a range of key matters such as (but not exclusively), health and wellbeing; funding; exams and assessment; study skills; attendance and engagement; and careers. Students may also be referred for specialist advice, to the central student support teams based on each campus at the Student Hub/Link.

# Graduate Attributes, Employability & Personal Development Planning

Graduate attributes are the skills and personal qualities to be developed in students through their university experience that will prepare for life and work in the 21st century.

Apart from the subject knowledge and expertise developed on this programme, there are many skills, abilities and qualities that will help students beyond their university studies. These will be developed in students during their studies and will help prepare them for employment and contributing to society. The University of the West of Scotland strives to produce graduates who are UWS: that

is, Universal, Work-ready (if not world-ready), and Successful. Further, the University seeks to instil,

in students, personal attributes of **Academic**, **Personal**, and **Professional**. Particular permutations of these attributes can be seen in the University's documentation on "I am UWS"

(<a href="https://www.uws.ac.uk/current-students/your-graduate-attributes/">https://www.uws.ac.uk/current-students/your-graduate-attributes/</a>). Each module descriptor listed below considers these graduate attributes and relates them to the specific mathematical topics being discussed.

Some specific examples where the programme is designed to develop students' range of skills and attributes that are transferable to other areas of study and professional employment are

- knowing how to access and apply relevant research findings;
- practising in a range of professional contexts, which include a degree of unpredictability;
- communicating effectively, both orally and in writing, with a range of audiences;
- engaging in professional dialogue with peers and senior colleagues;
- constructing and sustaining reasoned and coherent arguments about professional practices;
- undertaking critical analysis, evaluation and synthesis of ideas, concepts, information and issues;
- reflecting on, and acting to improve, the effectiveness of their own practice;
- exercising autonomy and initiative in professional activities, and;
- working with others and, at times, taking a leading role.

#### **Work Based Learning/Placement Details**

The programme delivery team will provide students with opportunities to apply their mathematical and statistical knowledge and training in work-based contexts. These will be made available through a number of vehicles, including but not limited to:

- presentations from mathematics and statistics graduates currently working in a range of sectors:
- application of mathematical and statistical theory to real-life data;
- working with industry/business partners to seek solutions to contemporary work-related issues (specifically for Final Honours Projects);
- supporting applications for summer work-related research placements within the University, and;
- supporting the acquisition of summer placements with relevant employers.

#### **Engagement**

In line with the <u>Academic Engagement Procedure</u>, Students are defined as academically engaged if they are regularly engaged with timetabled teaching sessions, course-related learning resources including those in the Library and on the relevant learning platform, and complete assessments and submit these on time.

Where a programme has Professional, Statutory or Regulatory Body requirements these will be listed here:

Meeting a minimum threshold of engagement on 75% of pre-determined engagement points, including submission of all summative assessments.

#### **Equality and Diversity**

Further information on the institutional approach to Equality, Diversity and Inclusion can be accessed at the following link: <a href="https://www.uws.ac.uk/about-uws/uws-commitments/equality-diversity-inclusion/">https://www.uws.ac.uk/about-uws/uws-commitments/equality-diversity-inclusion/</a>
The programme is appropriate for all students irrespective of age, disability, gender and gender identity, race, ethnicity, religion or belief, or sexual orientation. To promote inclusive practice, procedures and processes have been subject to Equality Impact Assessment where appropriate.

In line with the Equality Act 2010 and UWS Equality and Diversity Commitments, the School of Computing, Engineering & Physical Sciences encourages the disclosure of support requirements, including disability, at the recruitment stage and throughout the duration of the programme. Emphasis is placed on confidentiality of information, the benefits of disclosure, and that no detriment to progress will be experienced. The School will endeavour to make reasonable adjustments to teaching and learning approaches and arrangements for assessment, including in laboratory environments, where a student has disclosed specific requirements.

Programme structures and requirements, SCQF level, term, module name and code, credits and awards (<u>Chapter 1, Regulatory Framework</u>)

# A. Learning Outcomes (Maximum of 5 per heading)

Outcomes should incorporate those applicable in the relevant QAA Benchmark statements

atement	3					
	Knowledge and Understanding					
A1	Demonstrate a broad knowledge of fundamentals of algebra, calculus, and statistics					
A2	A2 Relate knowledge to mathematical and statistical theories, concepts and principles					
	Practice - Applied Knowledge and Understanding					
B1	B1 Apply basic knowledge and skills in solving routine problems in mathematics and statistics					
B2	Apply basic knowledge and skills in solving investigation-type problems in mathematics and statistics					
	Communication, ICT and Numeracy Skills					
C1	Use software to tackle a range of numerical and non-numerical problems in theoretical and applicable situations					
C2	Present information in a variety of forms relevant to the context					
С3	Obtain information and data from standard sources					
G	eneric Cognitive Skills - Problem Solving, Analysis, Evaluation					
D1	Present and evaluate information and ideas in mathematical and statistical problems					
D2	Use a range of approaches to the solution of routine problems					
	Autonomy, Accountability and Working With Others					
E1	Exercise some initiative in and take responsibility for defined activities					
E2	Work with others in defined group exercises					

# **Core Modules**

	SCQF Module Level Code	Module	Module Name	Credit	Term			E44
		Code		Credit	1	2	3	Footnotes
	7	MATH07001	Analysis of Data	20	<b>/</b>	<		
	7	APPD07001	ASPIRE	20	<b>/</b>	<		
	7	MATH07003	Calculus A	20	<b>\</b>			

7	MATH07002	Discrete Mathematics 1	20	>		
7	MATH07009	Calculus B	20		<b>\</b>	
7	MATH07008	Computational Methods	20		<b>✓</b>	

<sup>\*</sup> Indicates that module descriptor is not published.

#### Footnotes

# **Optional Modules**

	SCQF Level	Module Code	Module Name	Credit	7	Tern	n	Eastmates
			Module Name	Credit	1	2	3	Footnotes

<sup>\*</sup> Indicates that module descriptor is not published.

#### Footnotes

#### **Criteria for Progression and Award**

Progression to SCQF Level 8 is available to students who fulfil the University progression requirements and who have obtained at least a C pass in each of the core modules at SCQF 7.

In line with University Regulation 3.15, students may exit with an award of Cert HE in Mathematics, with a minimum of 120 credit points at Level 7 or above, where all Core Level 7 modules have been passed at grade C or above.

A student may exit with a Cert HE Physical Sciences, with:

- a minimum of 120 credit points achieved at Level 7 or above, and;
- at least 80 credit points are achieved from any CHEM/FORS/MATH/PHYS modules.

# B. Learning Outcomes (Maximum of 5 per heading)

Outcomes should incorporate those applicable in the relevant QAA Benchmark statements

	Knowledge and Understanding					
A1	Demonstrate a broad knowledge of main areas of mathematics and/or statistics					
A2	Display an understanding of some major core theories and principles of mathematics and/or statistics					
A3	A3 Demonstrate specialist knowledge and understanding of some important mathematical and/or statistical concepts that underpin issues in classical and contemporary problems					
	Practice - Applied Knowledge and Understanding					
B1	Use a range of routine skills, techniques and practices in mathematics and/or statistics, including some advanced aspects					
B2	Carry out routine investigations into practical and theoretical issues					
В3	Present information gained through non-routine investigations which demonstrates knowledge and understanding of some classical and contemporary mathematical and/or statistical problems					

	Communication, ICT and Numeracy Skills				
C1	Use a range of specialist statistical software packages to process and analyse data and perform statistical predictions based on analysis				
C2	Use mathematical software to extend the analysis of non-routine problems to those requiring numerical methods				
С3	C3 Present information in numerical, graphical, verbal and written forms to a variety of audiences				
G	eneric Cognitive Skills - Problem Solving, Analysis, Evaluation				
D1	Undertake critical analysis, evaluation and synthesis of information related to the main ideas and concepts within the understanding and practice of mathematics and/or statistics				
D2	Use a variety of approaches to develop solutions to defined problems in classical and contemporary problems in mathematics and/or statistics				
D3	Display a critical evaluation of solutions and explanations of output from a range of analytical and numerical techniques				
	Autonomy, Accountability and Working With Others				
E1	Exercise autonomy and initiative in defined academic and professional activities				
E2	Take responsibility for work planning and time management within specified contexts				
Е3	Co-operate in group working exercises				

# Core Modules

SCQF	Module	Madula Nama	Coo dit	Term		l	Eastmates
Level	Code	Module Name	Credit	1	2	3	Footnotes
8	APPD08001	ASPIRE 2 *	20	<	<		
8	MATH08008	Multivariable Calculus	20	<	<		
8	MATH08007	Linear Algebra	20	<			
8	MATH08010	Probability and Statistics	20	<			
8	MATH08002	Differential Equations 1	20		<b>/</b>		
8	MATH08006	Discrete Mathematics 2	20		<b>/</b>		

<sup>\*</sup> Indicates that module descriptor is not published.

Footnotes
Optional Modules

SCQF	Module	Module Name	Cwodit	Term			Essamados
Level	Code	Wiodule Name	Credit	1	2	3	Footnotes

<sup>\*</sup> Indicates that module descriptor is not published.

#### Footnotes

# **Criteria for Progression and Award**

Progression to SCQF Level 9 is available to students who fulfil the University progression requirements and who have obtained at least a C pass in each of the core modules at SCQF 8.

In line with University Regulation 3.15, students may exit with an award of Dip HE in Mathematics, with a minimum of 240 credit points, where at least 100 credit points are achieved at Level 8 or above, and where all Core Level 7 and 8 modules have been passed at grade C or above. Distinction will be awarded in line with Regulations 3.25-3.26.

A student may exit with a Dip HE Physical Sciences, with:

- a minimum of 240 credit points, where;
- at least 100 credit points are achieved at Level 8 or above, and;
- at least 80 credit points are achieved from any CHEM/FORS/MATH/PHYS modules at Level 7 and Level 8

# C. Learning Outcomes (Maximum of 5 per heading)

Outcomes should incorporate those applicable in the relevant QAA Benchmark statements

	Knowledge and Understanding				
A1	Demonstrate a broad and integrated knowledge and understanding of major aspects of mathematics and/or statistics				
A2	Display a critical understanding of principal theories, principles, concepts and terminologies of mathematics and/or statistics				
A3	Show a knowledge of specialisms in calculus, complex analysis, differential equations, numerical analysis and other chosen topics within pure and applied mathematics or theoretical physics				
	Practice - Applied Knowledge and Understanding				
B1	Use a selection of skills, techniques and practices in the analysis of problems in mathematics and/or statistics				
B2	Display skills in techniques, practices and information at a specialised level in mathematics and/or statistics				
В3	Practise routine and more unpredictable investigations and enquiries in mathematics and/or statistics				
	Communication, ICT and Numeracy Skills				
C1	Use suitable mathematical and/or statistical software to analyse data at a specialised level and make, and communicate, effective conclusions and recommendations				
C2	Communicate effectively, using a variety of media including digital technologies, and engage in professional dialogue with peers and university staff				
С3	Communicate and report effectively, both orally and in writing				
Generic Cognitive Skills - Problem Solving, Analysis, Evaluation					

D1	Undertake critical analysis, evaluation and synthesis of ideas, concepts, information and issues in mathematics and/or statistics
D2	Identify and analyse routine professional problems and issues in mathematics and/or statistics
D3	Draw on a range of sources in making judgments on matters relating to mathematics and/or statistics
	Autonomy, Accountability and Working With Others
E1	Exercise autonomy and initiative in dealing with activities at a professional level in mathematics and/or statistics
E2	Take some responsibility for the work of others and for the use of resources
Е3	Practise working in group exercises taking account of others' roles and responsibilities

# Core Modules

SCQF Level	Module Code	Module Name	Credit	Term			E44
			Crean	1	2	3	Footnotes
9	APPD09001	ASPIRE 3 *	20	>	>		
9	MATH09002	Advanced Calculus	20	<b>/</b>	<b>✓</b>		
9	MATH09009	Complex Analysis	20	<b>~</b>			
9	MATH09012	Statistical Estimation and Inference	20		<b>~</b>		
9		Numerical Analysis 1 *	20		<b>✓</b>		

<sup>\*</sup> Indicates that module descriptor is not published.

# Footnotes

# **Optional Modules**

SCQF	Module	Module Name	Credit	Term			Footnotes
Level	Code	Module Name	Credit	1	2	3	roothotes
9	MATH09013	Abstract Algebra	20	<b>✓</b>			
8	PHYS08007	Classical Mechanics	20	>			Level 8 physics, suitable for level 9 maths.

<sup>\*</sup> Indicates that module descriptor is not published.

# Footnotes

PHYS coded Classical Mechanics option at level 8 is an appropriate option for Level 9 mathematics students. Any other suitable option from level 8, 9, or 10 may be taken provided that the prerequisites are met.

**Criteria for Progression and Award** 

Progression to SCQF Level 10 is available to students who fulfil the University progression requirements and who have obtained at least a C pass in each of the core modules at SCQF 9.

In line with University Regulation 3.15, students may exit with a BSc Mathematics, with a minimum of 360 credit points, where at least 100 credit points are achieved at Level 9 or above, and where all Core Level 7, 8 and 9 modules have been passed at grade C or above (Regulation 3.15). Distinction will be awarded in line with Regulations 3.25-3.26.

A student may exit with a BSc Physical Sciences, with:

- a minimum of 360 credit points, where;
- at least 100 credit points are achieved at Level 9 or above, and;
- at least 80 credit points are achieved from CHEM/FORS/MATH/PHYS modules at every level.

# D. Learning Outcomes (Maximum of 5 per heading)

Outcomes should incorporate those applicable in the relevant QAA Benchmark statements

S
<b>Knowledge and Understanding</b>
Demonstrate integrated knowledge and critical understanding of a broad range of facts, concepts, principles and theories relating to main branches of mathematics and/or statistics
Show knowledge of specialist topics in major areas of mathematics and/or statistics, with awareness of significant issues at the frontiers of the application of statistics in today's society
Demonstrate understanding of classical mathematics topics in the field of partial differential equations and their applications in today's world
Demonstrate knowledge of how to access and apply relevant findings from mathematics and/or statistics
Practice - Applied Knowledge and Understanding
Exhibit practical skills in classical and contemporary applications of mathematics and/or statistics, particularly in real-life situations
Construct and implement experimental design, and statistically analyse corresponding complex data associated with modern issues, providing recommendations based on findings
Execute a defined project of research, development or investigation
Communication, ICT and Numeracy Skills
Communicate effectively and engage in professional dialogue with peers, university staff and school colleagues
Implement specialist statistical software for the analysis of complex data associated with problems in today's society
Communicate and report effectively, both orally and in writing, to a wide range of audiences, including learners, and the wider community
eneric Cognitive Skills - Problem Solving, Analysis, Evaluation
Undertake critical analysis, evaluation and synthesis of ideas, concepts, information and issues in mathematics and/or statistics

D2	D2 Justify a personal stance on issues in mathematics and/or statistics by referring to appropriate evidence from a range of sources						
D3	Develop record of personal professional learning and development into an Initial Professional Development Action Plan						
	Autonomy, Accountability and Working With Others						
<b>E</b> 1	Exercise autonomy and initiative in academic and professional activities, including managing time and prioritising workloads						
E2	Work effectively with others and, at times, take a leading role in bringing about change, development and new thinking relating to an aspect of mathematics and/or statistics						
Е3	Work, under guidance, in a peer relationship with specialist practitioners						

# Core Modules

	Module Code	Module Name	Credit	Term			Eastmates
			Credit	1	2	3	Footnotes
10	MATH10011	Mathematics Project	40	>	>		
10	MATH10003	Partial Differential Equations	20	<b>✓</b>			
10	MATH10009	Number Theory and its Applications	20		<b>✓</b>		

<sup>\*</sup> Indicates that module descriptor is not published.

# Footnotes

# **Optional Modules**

SCQF Level	Module Code	Module Name	Cuo dit	Term			E44
			Credit	1	2	3	Footnotes
10	MATH10010	Mathematical Biology	20	>			
10		Numerical Analysis 2 *	20	>			
9	PHYS09008	Quantum Mechanics	20	<b>✓</b>			Suitable for maths students at level 10.
10	MATH10008	Regression Methods and Experimental Design	20		<b>~</b>		
10	PHYS10013	Selected Topics in Theoretical Physics	20		<b>✓</b>		

<sup>\*</sup> Indicates that module descriptor is not published.

#### Footnotes

Students who have taken (level 8 physics module) "Classical Mechanics" at level 9 and (level 9 physics module) "Quantum Mechanics" at level 10 may take Level 10 physics module "Selected Topics in Theoretical Physics".

Criteria for Award

Honours degrees are classified in accordance with University Regulation 3.21.

In line with University Regulation 3.15, students who complete a minimum of 480 credit points, with at least 100 credit points from Level 10, and where all Core modules have been passed at grade C or above, will exit with BSc (Hons) Mathematics.

A student may exit with a BSc (Hons) Physical Sciences, with:

- a minimum of 480 credit points, where;
- at least 100 credit points are achieved at Level 10 or above, and;
- at least 80 credit points are achieved from CHEM/FORS/MATH/PHYS modules at every level.

There may be instances where a student has been unsuccessful in meeting the award criteria for the named award and for other more generic named awards existing within the School. Provided that they have met the credit requirements in line with the SCQF credit minima (please see Regulation 1.21), they will be eligible for an exit award of CertHE, DipHE or BSc in Combined Studies.

#### **Regulations of Assessment**

Candidates will be bound by the general assessment regulations of the University as specified in the University Regulatory Framework.

An overview of the assessment details is provided in the Student Handbook and the assessment criteria for each module is provided in the module descriptor which forms part of the module pack issued to students. For further details on assessment please refer to Chapter 3 of the Regulatory Framework. To qualify for an award of the University, students must complete all the programme requirements and must meet the credit minima detailed in Chapter 1 of the Regulatory Framework.

#### **Combined Studies**

There may be instances where a student has been unsuccessful in meeting the award criteria for the named award and for other more generic named awards existing within the School. Provided that they have met the credit requirements in line with the SCQF credit minima (please see Regulation 1.21), they will be eligible for an exit award of CertHE / DipHE or BA / BSc in Combined Studies. For students studying BA, BAcc, or BD awards the award will be BA Combined Studies. For students studying BEng or BSc awards, the award will be BSc Combined Studies.

#### Changes

# Changes made to the programme since it was last published:

In order to comply with the summer 2023 ILR requirements, this version of the programme specification was updated to reflect level 7, 8, 9 and 10 changes due to the implementation of ASPIRE at all levels and general modernising of level 7 of the programme, with several modules changing names.

Some other changes were made such as removing level 9 mechanics and recommending that mathematics students instead take the level 8 PHYS coded mechanics module at level 9 which covers the same core material and some other key topics at a deeper mathematical level. Level 10 Mathematics students are then able to take "Quantum Mechanics" which is a level 9 PHYS coded module in T1.

They then have the option of taking the level 10 PHYS coded option "Selected Topics in Theoretical Physics" in T2. (R Meeten, 27/04/2023)

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