University of the West of Scotland

Postgraduate Programme Specification

Session: 2023/24

Last modified: 22/06/2023 13:59:09
Status: Proposal

Named Award Title:	MSc One Health

Award Title for Each Award:	MSc One Health PG Cert One Health PG Dip One Health

Date of Validation:	May 2023
Details of Cohorts Applies to:	

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:	N/A
Maximum Period of Registration:	
Mode of Study:	Full Time Part Time
Campus:	Lanarkshire

School:	School of Health and Life Sciences
Programme Board	Biological Sciences and Health
Programme Leader:	Anne Crilly

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:

Appropriate Undergraduate Qualification

Honours degree with a minimum 2:2 classification in a subject area relevant to One Health. Examples include (although not exclusive), biology, biomedical science or related subject, zoology, veterinary medicine, environmental science, public health, allied health professionals and health policy. Recognition of prior learning equivalent to PG Dip or work experience of 3 years in a relevant One Health sector may be considered for programme entry. This will be decided on a case to case basis. Please refer to Regulatory Framework 2022-2023, Chapter 2, for further clarification on admissions (https://www.uws.ac.uk/media/8958/regulatory-framework-2022-2023-web.pdf).

Other Required Qualifications/Experience

Candidates whose first language is not English, a Qualification Minimum Requirement applies. More information can be obtained at https://www.uws.ac.uk/international/english-language-requirements/ and from admissions.

Further desirable skills pre-application

General Overview

The programme has been designed in line with guidance from UWS Regulatory Framework (https://www.uws.ac.uk/current-students/supporting-your-studies/your-rights-responsibilities/regulatory-framework/) and Curriculum Framework (https://www.uws.ac.uk/about-uws/a-21st-century-university/corporate-strategy-plans/), making it student centred, flexible with hybrid delivery, simple and coherent, authentic and inclusive.

As an emerging theme recognised by a number of health agencies, including The World Health Organisation (WHO; https://www.who.int/health-topics/one-health#tab=tab_1); Centre for Disease Control and Prevention (CDCP; https://www.cdc.gov/onehealth/basics/index.html); World Organisation for Animal Health (WOAH; https://www.woah.org/en/what-we-do/global-initiatives/one-health/), a One Health approach is now seen as the optimum way of managing health challenges across the globe. In contrast to 'Global Health' which has a one dimensional focus on human disease, One Health looks at the interdependence of human and animal health with environmental pressures, including climate change and pollution, along with changes to ecosystems and animal habitats. The overarching theme of 'One Health' brings together multidisciplinary teams with expertise across a range of sectors, including biomedical science, microbiology and zoology, public health, veterinary medicine, medicine and allied health professionals, environmental science and policy makers, to manage future health challenges. This approach has recently been seen in the global fight against zoonotic infection, with animals transmitting pathogen to humans, resulting in disease (e.g. COVID-19 and Ebola). Antimicrobial resistance or AMR is another example which is being tackled with a One Health approach (https://www.nss.nhs.scot/publications/scottish-one-health-antimicrobial-use-and-antimicrobial-resistance-in-2021/). While the concept is not new and has been around for several decades, it is still a developing theme, with a burgeoning need to equip individuals with the appropriate skill sets to take a One Health approach to health challenges in the 21st century. This MSc programme is an excellent opportunity for those working or interested in a One Health approach to gain relevant skills and expertise.

The MSc One Health Programme will look at the connectivity across human and animal health and the environmental pressures which impact both. Climate change, deforestation, increased urbanisation and loss of natural habitats, means that interaction between humans and more diverse animal species is on the increase, creating opportunity for zoonotic infection.

The programme aims to provide students with a critical understanding of One Health, while equiping them with excellent research, oral and written communication skills in order that they can convey complex and challenging topics to peers within the sector. Moreover, the programme aims to develop future leaders and champions within the One Health sector.

Taking a holistic and integrative approach, the programme will cover the three pillars of human and animal disease along with environmental science. The programme will be delivered in a hybrid manner at the Lanarkshire Campus. Students undertaking the MSc in One Health will study 7 modules across 3 Terms. Candidates will complete 180 credits consisting of 4 core modules (worth 120 credits) plus 3 optional modules (worth 60 credits) from a choice of 5. Core modules will include **Concepts in One Health**; **Environmental, Animal and Human Health**; **Research Design** and **Masters Research Project**. Optional modules will be selected from **Food and Environmental Microbiology; Global Health Economics and Health Systems**; **Principles of Infection and Disease Control**; **Ecology and Control of Emerging Diseases; Zoonoses** (optional modules will run dependent on student numbers). Modules will develop key transferrable skills making graduates attractive to a wide employment market such as biomedical science, human and animal health, industry,eduction, health policy, research, public health and infection control.

The School of Health and Life Sciences is in an excellent position to deliver this unique and exciting programme which will appeal to anyone working or interested in the One Health approach to disease management. Underpinned by a multidisciplinary research portfolio as evidenced by Research Excellence Framework (REF 2021), with the School of Health and Life Sciences submitting to both Unit of Assessment 3 (UoA3: Allied Health professionals, Dentistry, Nursing and Pharmacy) and Unit of Assessment 7 (UoA7: Earth Systems and Environmental Sciences), expertise in chronic human disease, infection and parasitology, aquatic health, environmental science, infection control and public health, will all be reflected in the module provision for the programme.

The MSc programme is designed to equip those interested in working within the One Health sector with a wide and relevant knowledge which will inform management of health challenges at the local, national and global level. This in turn opens up a range of employment opportunities including research, animal and human health, environemntal sectors, health management, eductaion and industry.

Graduate Attributes, Employability & Personal Development Planning

The MSc programme in One Health has been designed to promote UWS Graduate Attributes (https://www.uws.ac.uk/current-students/your-graduate-attributes/):

1. **Universal**
2. **Work Ready**
3. **Successful**
4. **Academic**
5. **Personal**
6. **Professional**

As an internationally recognised concept, an MSc in One Health will prepare graduates for local, national and international jobs (**Universal**), equipped with relevant knowledge and expertise for employment (**Work Ready**). As an emerging area within Scotland and the UK, with current One Health provision in its infancy, UWS graduates will be at the forefront in developing this area and driving its success (**Successful**).

The course will introduce students to a breadth of topics related to One Health which will be delivered by experts across the School of Health and Life Sciences. This will develop academic skills sets relevant to personal development and One Health (**Academic**). Assessment for the programme has been designed to be sustainable, and to enhance independent learning, critical thinking and analysis, with group work allowing students to develop skills in team building, leadership and communication (**Personal and Professional**).

Personal Development Planning (PDP) is embedded within the programme with modules designed to develop and enhance UWS attributes. A range of coursework exercises will be identified and used to give students the opportunity to reflect upon their performance and plan for the next cycle of PDP.

Employability skills will be built into the programme. Generic skills that are transferable to many areas of employment are embedded throughout the programme and are detailed in the module descriptors.

Work Based Learning/Placement Details

While there is no work placement linked to this programme, students will gain relevant experience by working with real life case studies, including exposure to emerging global issues related to One Health themes. Assessment will be authentic and focused on development of skills relevant to the working environment.

Engagement

In line with the Academic Engagement Procedure, 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:

In line with the Academic Engagement Procedure, 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 VLE, and complete assessments and submit these on time. For the purposes of this programme, academic engagement equates to the following: Students will be required to engage with all timetabled synchronous teaching, be accessing learning resources which will be provided on the virtual learning platform, with completion of assessments and timely submissions.

Equality and Diversity

Further information on the institutional approach to Equality, Diversity and Inclusion can be accessed at the following link: https://www.uws.ac.uk/about-uws/uws-commitments/equality-diversity-inclusion/

The University champions equality, diversity and inclusivity which sits at the heart of the student learning experience. This programme has been designed to be fully inclusive in line with Equality Act, 2010 and the UWS Equality, Diversity, and Human Rights Code (https://www.uws.ac.uk/media/7187/uws-edihr-code-april-2021.pdf).
The programme will be delivered in a hybrid manner, allowing a flexible learning approach with a mix of online and on campus face to face teaching. As a postgraduate degree, there is a requirement for self-directed and independent learning, with students required to undertake a significant amount of research linked to the topic of One Health. This allows a flexible and inclusive approach to learning. Resources can also be made available from the disability team and education guidance advisors to further support students when required. With the appropriate disability disclosures in place, flexibility for submission deadlines will be allowed although this should be discussed in advance with module coordinators.

For more information The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality and Diversity Policy

Equality Impact Assessment to be undertaken. As a new programme, an Equality Impact Assessment has still to be completed.

Programme structures and requirements, SCQF level, term, module name and code, credits and awards (**Chapter 1, Regulatory Framework** **)**

A. PG Cert
Learning Outcomes (Maximum of 5 per heading)

Knowledge and Understanding	
A1	Demonstrate critical understanding of current knowledge and challenges in selected aspects of One Health and the interconnectivity of animal, environmental and human health.
A2	Demonstrate a comprehensive and critical understanding of selected techniques applicable to the research and evaluation of the literature pertinent to the concepts of One Health.
Practice - Applied Knowledge and Understanding	
B1	Use and apply advanced theoretical approaches to inform the theory and practice of One Health.
B2	Evaluate and interpret case studies and demonstrate a knowledge on the cross-sector expertise required to manage One Health challenges.
Communication, ICT and Numeracy Skills	
C1	Be able to interpret and evaluate data relevant to the resolving 'real-world' challenges using the One Health approach.
C2	Demonstrate competence in academic writing to convey outcomes of independent research to experts and peers.
Generic Cognitive Skills - Problem Solving, Analysis, Evaluation	
D1	Critically analyse and evaluate issues related to One Health locally, internationally and globally, with reflective analysis to link this to policy and practice.
Autonomy, Accountability and Working With Others	
E1	Show ability to act autonomously in planning and executing tasks.
E2	Demonstrate the ability to work in a professional manner and be able to make informed judgements in a professional and ethical manner.

Core Modules

SCQF Level	Module Code	Module Name	Credit	Term 1	Term 2	Term 3	Footnotes
11	BIOL11031	Concepts in One Health *	20	✓			See below
11	BIOL11032	Environmental, Animal and Human Health *	20		✓		See below

* Indicates that module descriptor is not published.

Footnotes
Students must take at least one of the two core modules offered.

Optional Modules

SCQF Level	Module Code	Module Name	Credit	Term 1	Term 2	Term 3	Footnotes
11	BIOL11033	Ecology and control of emerging diseases *	20	✓			

10	BIOL10025	Food and Environmental Microbiology	20	✓		
11	NURS11124	Global Health Economics & Health Systems	20	✓		
11	BIOL11022	Principles of Infection and Disease Control	20		✓	
11	BIOL11007	Research Design	20		✓	
11	BIOL11034	Zoonoses *	20		✓	

* Indicates that module descriptor is not published.

Footnotes
Optional modules will run dependant on student numbers.

Criteria for Progression and Award

In line with UWS Regulatory Framework, for the award of a PG Cert One Health, at least 60 Credit points must be achieved of which a minimum of 40 are at level 11 and none are below level 10 and include at least one of the core modules specified above.

B. PG Dip
Learning Outcomes (Maximum of 5 per heading)

	Knowledge and Understanding
A1	Demonstrate critical understanding of current knowledge and challenges in selected aspects of One Health and the interconnectivity of animal, environmental and human health.
A2	Demonstrate a comprehensive and critical understanding of selected techniques applicable to the research and evaluation of the literature pertinent to the concepts of One Health.
A3	Show a critical awareness of the methodologies required to evaluate and develop research proposals at the forefront of public health.
	Practice - Applied Knowledge and Understanding
B1	Use and apply advanced theoretical approaches to inform the theory and practice of One Health.
B2	Evaluate and interpret case studies and demonstrate a knowledge on the cross-sector expertise required to manage One Health challenges.
	Communication, ICT and Numeracy Skills
C1	Be able to interpret and evaluate data relevant to the resolving 'real-world' challenges using the One Health approach.
C2	Demonstrate competence in academic writing to convey outcomes of independent research to experts and peers.
	Generic Cognitive Skills - Problem Solving, Analysis, Evaluation
D1	Critically analyse and evaluate issues related to One Health locally, internationally and globally, with reflective analysis to link this to policy and practice.
D2	Demonstrate an understanding of the factors which impact human and animal health along with reflection to develop solutions to manage these challenges.
	Autonomy, Accountability and Working With Others
E1	Show ability to act autonomously in planning and executing tasks.
E2	Work effectively with others to reflect, analyse and manage One Health challenges.
E3	Demonstrate the ability to work in a professional manner and be able to make informed judgements relating to professional and ethical issues.

Core Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	

11	BIOL11007	Research Design	20		✓	
11	BIOL11031	Concepts in One Health *	20	✓		
11	BIOL11032	Environmental, Animal and Human Health *	20		✓	

* Indicates that module descriptor is not published.

Footnotes

Optional Modules

| SCQF Level | Module Code | Module Name | Credit | Term | | | Footnotes |
				1	2	3	
11	BIOL11033	Ecology and control of emerging diseases *	20	✓			
10	BIOL10025	Food and Environmental Microbiology	20	✓			
11	NURS11124	Global Health Economics & Health Systems	20	✓			
11	BIOL11005	Masters Research Project	60			✓	
11	BIOL11022	Principles of Infection and Disease Control	20		✓		
11	BIOL11034	Zoonoses *	20		✓		

* Indicates that module descriptor is not published.

Footnotes
Number of optional modules running will be dependant on student numbers.

Criteria for Progression and Award

In line with UWS Regulatory Framework, for the award of a PG Dip One Health, at least 120 Credit points must be achieved of which a minimum of 90 are at level 11 and none below level 10 and include the core modules specified above. Distinction will be awarded in line with University Regulations.

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

Knowledge and Understanding	
A1	Demonstrate critical understanding of current knowledge and challenges in selected aspects of One Health and the interconnectivity of animal, environmental and human health.
A2	Demonstrate a comprehensive and critical understanding of selected techniques applicable to the research and evaluation of the literature pertinent to the concepts of One Health.
A3	Demonstrate an ability to interpret, analyse and give a comprehensive evaluation of data relevant to the sector of One Health.
A4	Show a critical awareness of the methodologies required to evaluate and develop research proposals at the forefront of One Health Research.
Practice - Applied Knowledge and Understanding	
B1	Critically review current literature and use information from the literature to inform a research dissertation relevant to the area of One Health.
B2	Use and apply advanced theoretical approaches to inform the theory and practice of One Health.
B3	Evaluate and interpret case studies and demonstrate a knowledge on the cross-sector expertise required to manage One Health challenges.
Communication, ICT and Numeracy Skills	
C1	Be able to interpret and evaluate data relevant to the resolving 'real-world' challenges using the One Health approach.
C2	Demonstrate competence in academic writing to convey outcomes of independent research to experts and peers.

Generic Cognitive Skills - Problem Solving, Analysis, Evaluation

D1	Critically analyse and evaluate issues related to One Health locally, internationally and globally, with reflective analysis to link this to policy and practice.
D2	Demonstrate an understanding of the factors which impact human and animal health along with reflection to develop solutions to manage these challenges.

Autonomy, Accountability and Working With Others

E1	Show ability to act autonomously in planning and executing tasks.
E2	Work effectively with others to reflect, analyse and manage One Health challenges.
E3	Demonstrate the ability to work in a professional manner and be able to make informed judgements in a professional and ethical manner.

Core Modules

SCQF Level	Module Code	Module Name	Credit	Term 1	Term 2	Term 3	Footnotes
11	BIOL11031	Concepts in One Health *	20	✓			
11	BIOL11007	Research Design	20		✓		
11	BIOL11005	Masters Research Project	60			✓	
11	BIOL11032	Environmental, Animal and Human Health *	20		✓		

* Indicates that module descriptor is not published.

Footnotes

Optional Modules

SCQF Level	Module Code	Module Name	Credit	Term 1	Term 2	Term 3	Footnotes
11	BIOL11033	Ecology and control of emerging diseases *	20	✓			
10	BIOL10025	Food and Environmental Microbiology	20	✓			
11	NURS11124	Global Health Economics & Health Systems	20	✓			
11	BIOL11022	Principles of Infection and Disease Control	20		✓		
11	BIOL11034	Zoonoses *	20		✓		

* Indicates that module descriptor is not published.

Footnotes
Optional modules will run depending on the number of students.

Criteria for Award

In line with UWS Regulatory Framework, for the award of an MSc One Health, at least 180 Credit points must be achieved of which a minimum of 150 are at level 11 and none below level 10 and include the core modules specified above. Distinction will be awarded in line with University Regulations.

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 PgCert/ PgDip in Combined Studies.

Changes

Changes made to the programme since it was last published:

Version Number: 1