



## Postgraduate Programme Specification

<b>Session</b>	2024/25	<b>Last Modified</b>	28.8.2024
<b>Named Award Title</b>	MSc One Health: Environment, Animal and Human Disease		
<b>Award Title for Each Award</b>	MSc One Health: Environment, Animal and Human Disease PG Cert One Health: Environment, Animal and Human Disease PG Dip One Health: Environment, Animal and Human Disease		
<b>Date of Approval</b>	May 2023		
<b>Details of Cohort Applies to</b>	NA		
<b>Awarding Institution</b>	University of the West of Scotland	<b>Teaching Institution(s)</b>	University of the West of Scotland
<b>Language of Instruction &amp; Examination</b>	English		
<b>Award Accredited by</b>	NA		
<b>Maximum Period of Registration</b>	2 years		
<b>Duration of Study</b>			
<b>Full-time</b>	12 months	<b>Part-time</b>	24 months
<b>Placement (compulsory)</b>	NA		
<b>Mode of Study</b>	<input checked="" type="checkbox"/> Full-time <input checked="" type="checkbox"/> Part-time		
<b>Campus</b>	<input type="checkbox"/> Ayr <input type="checkbox"/> Dumfries	<input checked="" type="checkbox"/> Lanarkshire <input type="checkbox"/> London <input type="checkbox"/> Paisley	<input type="checkbox"/> Online / Distance Learning <input type="checkbox"/> Other (specify)
<b>School</b>	Health and Life Sciences		
<b>Divisional Programme Board</b>	Biological Sciences Health		
<b>Programme Leader</b>	A Crilly		

**Admissions 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 Qualifications:**

Applicants will typically possess a degree or equivalent. In the absence of a degree, where entry requirements do not conform to the general entry requirements, other evidence can be considered on an individual basis in line with Regulations 2.13 – 2.36 (Recognition of Prior Learning – RPL / Recognition of Credit).

For this programme, an Honours degree with a minimum 2:2 classification in a subject area relevant to One Health includes (although not exclusive), biology, biomedical science or related subject, zoology, veterinary medicine, environmental science, public health, allied health professionals (e.g. nursing, pharmacy) 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

**Other Required Qualifications/Experience**

Candidates whose first language is not English, a Qualification Minimum Requirement applies.

More information can be obtained at:

English Language Requirements | UWS | University of the West of Scotland

**Further desirable skills pre-application**

N/A

**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, simple, coherent, authentic and inclusive.

As an emerging theme recognised by a number of health agencies, including The World Health Organisation (WHO), Centre for Disease Control and Prevention (CDC) and World Organisation for Animal Health (WOAH), a One Health approach is now seen as the optimum way of managing global health challenges. 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.

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 equipping 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 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 and 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, education, 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, environmental sectors, health management, education and industry.

### **Typical Delivery Method**

The programme will be delivered at University of the West of Scotland Lanarkshire Campus. Modules will use a mix of lectures, tutorials, workshops, group work and student presentations to suit a range of learning styles. All teaching material and resources will be available to enrolled students on the virtual learning platform (VLP), Aula

### **Any additional costs**

Students will require a personal laptop.

### **Graduate Attributes, Employability & Personal Development Planning**

The MSc programme in One Health has been designed to promote UWS Graduate Attributes (Graduate Attributes ([uws.ac.uk](http://uws.ac.uk)):

1. Universal

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

As an internationally recognised concept, the programme 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.

#### **Attendance and Engagement**

In line with the [Student Attendance and Engagement Procedure](#), Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this programme, academic engagement equates to the following:

Attendance at all timetabled teaching, accessing learning resources on the virtual learning platform (VLP), completion of assessments and timely submissions of coursework.

#### **Equality and Diversity**

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: [UWS Equality, Diversity and Human Rights Code](#).

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>).

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](#).

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](#))**

<b>Learning Outcomes</b>
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<b>SCQF LEVEL 11 - Postgraduate Certificate (PgCert)</b>	
Learning Outcomes	
<b>Knowledge and Understanding</b>	
<b>A1</b>	Demonstrate critical understanding of current knowledge and challenges in selected aspects of One Health and the interconnectivity of animal, environmental and human health.
<b>A2</b>	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.
<b>A3</b>	NA
<b>A4</b>	NA
<b>A5</b>	NA
<b>Practice - Applied Knowledge and Understanding</b>	
<b>B1</b>	Use and apply advanced theoretical approaches to inform the theory and practice of One Health.
<b>B2</b>	Evaluate and interpret case studies and demonstrate a knowledge on the cross-sector expertise required to manage One Health challenges.
<b>B3</b>	NA
<b>B4</b>	NA
<b>B5</b>	NA
<b>Communication, ICT and Numeracy Skills</b>	
<b>C1</b>	Be able to interpret and evaluate data relevant to the resolving 'real-world' challenges using the One Health approach.
<b>C2</b>	Demonstrate competence in academic writing to convey outcomes of independent research to experts and peers.
<b>C3</b>	NA
<b>C4</b>	NA
<b>C5</b>	NA
<b>Generic Cognitive Skills - Problem Solving, Analysis, Evaluation</b>	
<b>D1</b>	Critically analyse and evaluate issues related to One Health locally, internationally and globally, with reflective analysis to link this to policy and practice.
<b>D2</b>	NA
<b>D3</b>	NA
<b>D4</b>	NA
<b>D5</b>	NA
<b>Autonomy, Accountability and Working with Others</b>	
<b>E1</b>	Show ability to act autonomously in planning and executing tasks.

<b>E2</b>	Demonstrate the ability to work in a professional manner and be able to make informed judgements in a professional and ethical manner.
<b>E3</b>	NA
<b>E4</b>	NA
<b>E5</b>	NA

### Postgraduate Certificate (PgCert) Modules

#### CORE

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	BIOL11031	Concepts in One Health	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See below
11	BIOL11032	Environmental, Animal and Human Health	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See below
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA

Footnotes for Core Modules  
Students must take at least one of the two core modules listed

### Postgraduate Certificate (PgCert) Modules

#### OPTION

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	BIOL11033	Ecology and control of emerging diseases	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See below
10	BIOL10025	Food and Environmental Microbiology	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See below
11	NURS11124	Global Health Economics & Health Systems	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See below
11	BIOL11022	Principles of Infection and Disease Control	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See below
11	BIOL11007	Research Design	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See below
11	BIOL11034	Zoonoses	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See below

Footnotes for Option Modules  
Optional modules will run dependant on student numbers.

#### Level 11- Postgraduate Certificate (PgCert)

##### Criteria for Award

Please refer to [UWS Regulatory Framework](#) for related regulations

In line with UWS Regulatory Framework, for the award of a PG Cert One Health: EAHD, 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>SCQF LEVEL 11 - Postgraduate Diploma (PgDip)</b> Learning Outcomes	
<b>Knowledge and Understanding</b>	
<b>A1</b>	Demonstrate critical understanding of current knowledge and challenges in selected aspects of One Health and the interconnectivity of animal, environmental and human health.
<b>A2</b>	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.
<b>A3</b>	Show a critical awareness of the methodologies required to evaluate and develop research proposals at the forefront of public health.
<b>A4</b>	NA
<b>A5</b>	NA
<b>Practice - Applied Knowledge and Understanding</b>	
<b>B1</b>	Use and apply advanced theoretical approaches to inform the theory and practice of One Health.
<b>B2</b>	Evaluate and interpret case studies and demonstrate a knowledge on the cross-sector expertise required to manage One Health challenges.
<b>B3</b>	NA
<b>B4</b>	NA
<b>B5</b>	NA
<b>Communication, ICT and Numeracy Skills</b>	
<b>C1</b>	Be able to interpret and evaluate data relevant to the resolving 'real-world' challenges using the One Health approach.
<b>C2</b>	Demonstrate competence in academic writing to convey outcomes of independent research to experts and peers.
<b>C3</b>	NA
<b>C4</b>	NA
<b>C5</b>	NA
<b>Generic Cognitive Skills - Problem Solving, Analysis, Evaluation</b>	
<b>D1</b>	Critically analyse and evaluate issues related to One Health locally, internationally and globally, with reflective analysis to link this to policy and practice.
<b>D2</b>	Demonstrate an understanding of the factors which impact human and animal health along with reflection to develop solutions to manage these challenges.
<b>D3</b>	NA
<b>D4</b>	NA
<b>D5</b>	NA
<b>Autonomy, Accountability and Working with Others</b>	
<b>E1</b>	Show ability to act autonomously in planning and executing tasks.
<b>E2</b>	Work effectively with others to reflect, analyse and manage One Health challenges.

<b>E3</b>	Demonstrate the ability to work in a professional manner and be able to make informed judgements relating to professional and ethical issues.
<b>E4</b>	NA
<b>E5</b>	NA

### Postgraduate Diploma (PgDip) Modules

#### CORE

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	BIOL11031	Concepts in One Health	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
NA	BIOL11032	Environmental, Animal and Human Health	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
11	BIOL11007	Research Design	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
Footnotes for Core Modules							
NA							

### Postgraduate Diploma (PgDip) Modules

#### OPTION

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	BIOL11033	Ecology and control of emerging diseases	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See below
10	BIOL10025	Food and Environmental Microbiology	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See below
11	NURS11124	Global Health Economics & Health Systems	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See below
11	BIOL11005	Masters Research Project	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See below
11	BIOL11022	Principles of Infection and Disease Control	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See below
11	BIOL11034	Zoonoses	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See below
Footnotes for Option Modules							
Number of optional modules running will be dependant on student numbers							

#### Level 11- Postgraduate Diploma (PgDip)

##### Criteria for Award

Please refer to [UWS Regulatory Framework](#) for related regulations

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.

<b>SCQF LEVEL 11 – Masters</b>	
Learning Outcomes (Maximum of 5 per heading)	
<b>Knowledge and Understanding</b>	
<b>A1</b>	Demonstrate critical understanding of current knowledge and challenges in selected aspects of One Health and the interconnectivity of animal, environmental and human health.
<b>A2</b>	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.
<b>A3</b>	Demonstrate an ability to interpret, analyse and give a comprehensive evaluation of data relevant to the sector of One Health.
<b>A4</b>	Show a critical awareness of the methodologies required to evaluate and develop research proposals at the forefront of One Health Research.
<b>A5</b>	NA
<b>Practice - Applied Knowledge and Understanding</b>	
<b>B1</b>	Critically review current literature and use information from the literature to inform a research dissertation relevant to the area of One Health.
<b>B2</b>	Use and apply advanced theoretical approaches to inform the theory and practice of One Health.
<b>B3</b>	Evaluate and interpret case studies and demonstrate a knowledge on the cross-sector expertise required to manage One Health challenges.
<b>B4</b>	NA
<b>B5</b>	NA
<b>Communication, ICT and Numeracy Skills</b>	
<b>C1</b>	Be able to interpret and evaluate data relevant to the resolving 'real-world' challenges using the One Health approach.
<b>C2</b>	Demonstrate competence in academic writing to convey outcomes of independent research to experts and peers.
<b>C3</b>	NA
<b>C4</b>	NA
<b>C5</b>	NA
<b>Generic Cognitive Skills - Problem Solving, Analysis, Evaluation</b>	
<b>D1</b>	Critically analyse and evaluate issues related to One Health locally, internationally and globally, with reflective analysis to link this to policy and practice.
<b>D2</b>	Demonstrate an understanding of the factors which impact human and animal health along with reflection to develop solutions to manage these challenges.
<b>D3</b>	NA
<b>D4</b>	NA
<b>D5</b>	NA
<b>Autonomy, Accountability and Working with Others</b>	
<b>E1</b>	Show ability to act autonomously in planning and executing tasks.
<b>E2</b>	Work effectively with others to reflect, analyse and manage One Health challenges.

<b>E3</b>	Demonstrate the ability to work in a professional manner and be able to make informed judgements in a professional and ethical manner.
<b>E4</b>	NA
<b>E5</b>	NA

## Masters Modules

### CORE

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	BIOL11031	Concepts in One Health	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
11	BIOL11007	Research Design	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
11	BIOL11005	Masters Research Project	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NA
11	BIOL11032	Environmental, Animal and Human Health	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
Footnotes for Core Modules							

## Masters Modules

### OPTION

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	BIOL11033	Ecology and control of emerging diseases	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
10	BIOL10025	Food and Environmental Microbiology	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
11	NURS11124	Global Health Economics & Health Systems	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
11	BIOL11022	Principles of Infection and Disease Control	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
11	BIOL11034	Zoonoses	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
Footnotes for Option Modules							
Optional modules will run depending on the number of students.							

### Level 11- Masters

#### Criteria for Award

**Please refer to [UWS Regulatory Framework for related regulations](#)**

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

