



# Extended Degree Applied Zoology

<b>UCAS code</b>	XD05
<b>Institution code</b>	H12
<b>Duration</b>	5 years (full-time) including a one-year work placement. A four year programme is available for applicants with at least two years, full-time relevant work experience.
<b>Start date</b>	September 2022
<b>Location</b>	<a href="#">Harper Adams University campus</a> (and location of work placement)*

Extended degree programmes are a means of accessing degree study should you not meet the entry requirements for honours degree programmes. These five-year courses replace some of our former foundation degree and extended foundation degree programmes. Candidates will be assessed at the end of their first year of study and progress to either an ordinary degree (BSc) or Honours Degree (BSc Hons).

## Entry requirements

You must be at least 17½ years old, and have 6 GCSE passes at grade C/4 or above, to include English language, maths and science (or 5 GCSE passes at grade C/4 or above, to include English language, maths and science if you also have a level 3 qualification such as A level or BTEC) . The required GCSEs must be completed prior to application.

Suitable applicants will be invited to attend an interview where they will be able to discuss their course choice in more detail. Interviews will take place either on campus or virtually taking into account any Covid-19 restrictions or government advice in place at the time.

## A-level entry requirements

- **Entry requirements for 2022 entry are not currently available. Please contact Admissions for advice**

## Teaching and learning

\* During the Covid-19 Pandemic the University is delivering blended learning. Government guidance is being constantly reviewed to establish the learning events which can be delivered face to face. Please refer to our [frequently asked questions](#) for further details.

# What will I study?

Year 1	
Information and Communication Technology (E3001C17)	15
Mathematics Applications and Statistics (E3002C17)	15
Academic Skills (R3001C17)	15
Readings in Applied Sciences (C3007C17)	15
Countryside Studies (C3002C17)	15
Physiological Chemistry (A3008C17)	15
Introduction to Animal Biology (A3003C17)	15
Animal Management and Welfare (A3002C17)	15

## Information and Communication Technology

**Year of study** 1  
**Code** E3001C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Mrs Kath Leigh](#)

This module develops your ability to use, adapt and apply ICT skills effectively to suit different purposes, through practical tasks. You need ICT skills, to use as a tool, to complete further studies and will, therefore, need to know how to find, develop and present information; recognise safe working practice; communicate effectively using electronic means; and manage files accurately.

You will:

- Manage data for easy retrieval and to minimise loss and demonstrate effective communication via electronic means.
- Design and develop structures and enter information; search for and find information; and integrate and present information using word processing software.
- Design and develop structures and enter information; search for and find information; and integrate and present information using presentation software.
- Design and develop structures and enter information; search for, find and develop information; and derive new information using spreadsheet software.

## Mathematics Applications and Statistics

**Year of study** 1  
**Code** E3002C17  
**Credits** 15  
**Core/option** Core

Numeracy skills are vital in Higher Education, and for future employment and life in general. Students on all Harper Adams' courses need the ability to process and interpret numerical data and present results effectively. This module aims to consolidate and improve these skills and improve your confidence in the use of mathematics. Some topics (percentages, statistics and graphs) link with the Information and Communication Technology module, being practised as spreadsheet exercises. The mathematical topics will be extensively applied to practical situations and higher education applications to facilitate achievement in your subsequent years of study.

You will:

- Select and apply mathematical principles to numerical, algebraic and analytical problems.
- Recognise and solve problems pertaining to space and shape applications.
- Recognise and solve problems pertaining to statistical and data handling problems.
- Recognise and solve problems pertaining to mechanical and accounting systems.

## Academic Skills

**Year of study** 1  
**Code** R3001C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Emma Tappin](#)

This module provides a grounding in the essential academic skills required to be effective during university study. The module will offer you a swift insight into expectations the university has in relation to report writing, good and poor academic practice, referencing, presentations and time-management, along with insights into revision and examination techniques. These skills will be developed throughout this module and are relevant to all areas of study in higher education.

You will:

- Produce well-constructed, correctly referenced written material using appropriate sources (e.g. journal articles, books and electronic sources).
- Demonstrate oral presentation techniques and effective use of visual aids.
- Develop the ability to give and receive feedback effectively.

## Readings in Applied Sciences

**Year of study** 1  
**Code** C3007C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr John Reade](#)

Finding, reviewing, and evaluation sources of information are key skills associated with scientific study. This module is designed to allow students to develop their skills in these three areas. Via discussion, debate, and independent study, students will explore the sources by which information can be obtained, the academic value of information from a variety of sources, and the importance of identifying and evaluating the drives, agendas, and biases of a range of information sources. This will be accomplished through analysis of scientific, technical, and popular writing on a range of subjects.

## Countryside Studies

**Year of study** 1  
**Code** C3002C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Simon Irvin](#)

The aim of this module is to provide and develop students' interest in the countryside, and give you a broad

introduction to ecology and to the different factors that may influence countryside decision making and management options. Consideration will be given to pertinent legislation, site designations, land use and conservation organizations.

You will develop a basic understanding of the factors that influence land use in the UK, both urban and rural, and through field visits be exposed to the different types of land use found in the UK today.

The identification and management of key habitat types will enable you to understand and appreciate the importance of integrating environmental, economic and social issues to create a sustainable countryside.

You will:

- Discuss the concepts of ecology, conservation and climate change.
- Identify and discuss the different land uses and changes which have occurred in the British Countryside.
- Identify and discuss the importance of evolution, food webs and chains, and the balance of plant and animal populations.
- Identify the principles and concepts of habitat management and their application to wildlife and landscape conservation.

## Physiological Chemistry

**Year of study** 1

**Code** A3008C17

**Credits** 15

**Core/option** Core

**Module contact** [Dr Sandy Mackenzie](#)

This module provides an introduction to biochemistry and biological molecules that are the building blocks of life. The use of this will develop an understanding of the structure and function of related biological macromolecules within an animal or plant and its environment. Enable students to understand both the similarities and differences in processes across plants and animals. This module will provide knowledge and understanding needed in a range of animal and applied science programmes which this supports, providing the material which may have been achieved by other students who have studied sciences at A level.

## Introduction to Animal Biology

**Year of study** 1

**Code** A3003C17

**Credits** 15

**Core/option** Core

This module will examine the fundamentals of Animal Biology applied to a range of domesticated animals, including companion animals, horses and livestock. The module will examine the structure and function of animal cells along with fundamentals of genetics and inheritance. The module provides the underpinning knowledge of animals' biology, including anatomy and physiology, essential for Animal, Veterinary Nursing or Agricultural degree programmes. Lectures will be supported by practical laboratory work.

You will:

- Recognise and understand the structure and function of animal cells and organelles including genetic material.
- Understand the physiological processes that occur within a mammalian body for a range of domesticated species, including companion animals, horses and livestock.
- Explain the relationship between structure and function of animal body systems.

## Animal Management and Welfare

**Year of study** 1  
**Code** A3002C17  
**Credits** 15  
**Core/option** Core

This module aims to give you an understanding and appreciation of the management and welfare of a range of animals including farmed animals and domestic pets. Topics covered will include the provision of resources to ensure optimum management, frameworks for assessing animal welfare and factors that can positively and negatively affect welfare in a range of animal species. It will be an essential module for students aiming to study further courses in animal health, welfare or management and veterinary nursing. For students on the Animal Management and Welfare route it will complement the Introduction to Animal Biology module.

You will:

- Identify systems commonly used to house and manage a range of captive and domesticated animal species and the consequences of good and poor management.
- Explain what is meant by the term 'animal welfare', frameworks that exist for assessing welfare and relevant legislation.
- Apply the principles of animal welfare assessment to animals in a variety of captive/domestic situations including: intensively and extensively farmed; companions (dogs and cats); laboratories; entertainment (zoos and circuses) and the wild.