

# ANIMAL SCIENCE

## FdSc AND BSc TOP-UP ANIMAL MANAGEMENT (BEHAVIOUR AND WELFARE)



### MODULES FOR STUDY

#### Year 1 (Level 4)

##### **Fundamentals of Animal Biology**

is designed for you to develop knowledge of biology on a range of scales (e.g. cellular to organismal), yet will place specific emphasis on homeostasis and regulatory systems, neural communications, genetics and inheritance.

##### **Animal Husbandry & Handling**

aims for students to acquire the skills in managing a wide range of species in captivity, with particular emphasis on the specialist husbandry techniques and practices of a variety of exotic and domestic species including mammals, birds, reptiles, amphibians, fish and invertebrates. This is achieved through both theory based sessions and practical using our zoo and farm facilities.

##### **Scientific Data Collection and Analysis**

aims to provide you with an introduction to the fundamental ideas of statistics, show you how statistical techniques may be applied to a variety of scenarios in the animal sciences, and develop your skills in data recording, handling and analysis.

##### **Animal Welfare Issues**

is a module driven by opinion and debate. It aims to cover the most important ethical issues within the discipline and explores both sides to each and every argument. Topics include sentience, animal rights and the examination of industry ethics through our welfare conference (featuring guest speakers) in the second term.

##### **Principles of Animal Disease**

explores common animal diseases across a variety of species, with the view to develop knowledge and understanding of the major pathogen groups and how disease is manifested and managed in a variety of contexts.

##### **Introduction to Animal Behaviour**

introduces key topics in the behaviour of animals, including feeding strategies, reproductive strategies and parental behaviour, aspects of territorial and social behaviour, communication, navigation and migration, learning and development.

#### Year 2 (Level 5)

##### **Research Methods**

will introduce you to the process of research and develop your skills in development of research projects in a subject-specific context.

##### **Behavioural Ecology\***

will develop your understanding of evolutionary and ecological theory in the interpretation and prediction of animals' behaviour, with a focus on the behaviour of animals in the wild.

##### **Animal Nutrition**

is designed to develop knowledge of the functions of individual nutrients and their role in maintaining health in animals in captivity. Additionally, the module aims to develop understanding of the differing requirements of individual species at all life stages in terms of types of feed and methods of feeding.

##### **Welfare: Evaluation & Impact**

expands upon the Animal Welfare Issues module (Level 4) by developing students' perception of welfare and evaluating the impact of poor animal welfare in a range of animal-based scenarios.

##### **Domestic Animal Husbandry & Welfare\***

aims to develop and enhance existing knowledge regarding the husbandry and management of a variety of domestic species in a variety of contexts, including pet shops, small holdings, farm parks, kennels, catteries and rehoming centres.

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#### Find out more at

[ucreaseheath.ac.uk](http://ucreaseheath.ac.uk)

### MODULES FOR STUDY

#### **Exotic Animal Husbandry & Welfare\***

aims to develop and enhance your existing knowledge regarding the husbandry and management of a range of exotic species in a variety of contexts, including zoos and aquaria, wildlife parks, farm parks and other private collections.

#### **Experiential Learning\***

aims to develop core transferable skills by undertaking overseas study, which includes the opportunity to reflect on meaningful work undertaken as part of an international field course.

#### **Work Based Learning in the Land Based Industries\***

is designed for you to express a preference for a particular field of industry, and then be located with a local employer to undertake meaningful work, normally in an area related to animal management.

### Top-Up Year (Level 6)

#### **Dissertation**

is a double module where you will pursue your own research project while working closely with a tutor who has research expertise in this area.

#### **Animal Cognition**

aims to develop your knowledge and understanding of the fundamental concepts of an animal's cognitive abilities including, learning and innovation, spatial navigation, communication, tool use and self-recognition. These will be examined in a diverse range of taxa and species.

#### **Animal Social Behaviour**

explores evolutionary and ecological theories of animal social behaviour across a range of taxa. This includes the topics of group living, travel coordination, communication, mating systems and offspring-parent relationships.

#### **Applications of Animal Behaviour for Conservation\***

examines the inter-disciplinary approach towards utilising knowledge and understanding of animal behaviour to aid species conservation.

#### **Animal Parasitology\***

aims to enhance your knowledge and understanding towards the biology of parasitism, its detection and subsequent analysis, control and management; but also concerns developing students' core skills in the application of basic and advanced laboratory techniques in the detection and analysis of parasite burdens.

#### **Animal Rehabilitation Therapies\***

is composed of two major topics: physical and behavioural rehabilitation. During physical rehabilitation you will learn to critically evaluate methods such as hydrotherapy and acupuncture, whereas behavioural rehabilitation will investigate common behavioural problems in companion animals (e.g. separation anxiety) and exotic species (e.g. stereotypical behaviours).

#### **Behavioural Enrichment & Training\***

is a module designed to allow you to explore the purpose of enrichment and training practices, but more specifically concerns how captive animal caregivers integrate, manage and evaluate these practices in a range of environments, including zoo, farm, and laboratory based settings.

#### **Scientific Communication & Zoo Education\***

examines the role of zoos in educating a range of audiences regarding pertinent conservation issues. This will also include the methods in which this information is conveyed and delivered, but also how scientific communication is used to inform, consult and persuade audiences.

\*Optional modules of study