



ANIMAL SCIENCE

BSc (HONS) WILDLIFE CONSERVATION AND ECOLOGY

MODULES FOR STUDY

Year 1 (Level 4)

Wildlife Ecology

explores how animals interact with their environment and how animal behaviour is shaped by external factors and stimuli.

Principles of Evolutionary Biology

is an introduction to the basic principles and concepts in genetics and evolution, and lays the foundations for understanding the genetic basis of behaviour, form and function through evolution, specifically natural selection.

Scientific Data Collection and Analysis

aims to provide you with an introduction to the fundamental ideas of statistics, shows 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.

Conservation Biology & Biodiversity

introduces you to the diversity of life, including how life has evolved, current global trends in biodiversity, and the management strategies involved in the maintenance and persistence of global biodiversity.

Ecological Survey & Census Skills

aims to give you substantial practical experience in conducting a variety of ecological census techniques across a diverse range of taxonomic groups and botanical types.

Conservation of British Habitats

develops your ability to investigate and evaluate a range of habitats found in the UK, such as heaths, moorlands, woodlands, grasslands and wetlands. This module also teaches you how to evaluate and actively manage site plans for habitats of conservation importance.

Year 2 (Level 5)

Research Methods

will introduce you to the process of research and develop your skills in the 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.

Technological Advancements in Conservation* aims to enhance students bespoke skills in their knowledge and application of a range of relevant conservation technologies, including Geographical Information Systems (GIS), camera trapping and drones.

Population & Community Ecology & Management

aims to develop your understanding of population ecology, including population growth, species interactions within populations, factors associated with population regulation, and the strategies employed for population management under a variety of conditions.

Animal Ecophysiology*

shows how specialised physiological systems have allowed animals to adapt to virtually every environment, including in extreme environments such as hot/dry habitats, cold habitats and at high altitudes. It also looks at the impact of these adaptation on conservation.

Marine & Freshwater Habitat Conservation*

aims to introduce examples of fauna and flora found in a range of aquatic habitats, and develop and evaluate conservation strategies for aquatic habitats.

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Find out more at

ucraseheath.ac.uk

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Wildlife Health & Rehabilitation

explores the basics of triage and treating common injured native wildlife, and allows you to gain an understanding of the ethical and legal considerations in handling, restraint and examination of wildlife patients.

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 wildlife conservation.

Year 3 (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.

Applied Issues in Wildlife Conservation

is designed to develop your in-depth knowledge of current topics in conservation biology, plus enable you to critically examine current issues in wildlife preservation and evaluate a range of techniques and approaches employed in the study of conservation monitoring and management.

Biology & Conservation of Aquatic Organisms* aims to enable you to develop knowledge and understanding of the biology and conservation of all aquatic organisms, including marine and freshwater mammals, fish and invertebrates. Furthermore, you will have opportunity to examine the methods employed to manage these species for conservation purposes.

Biology & Conservation of Mammals*

aims to enable you to understand biodiversity and conservation implications of the class Mammalia, plus examine the diagnostic characteristics of mammals and their phylogenetic relationships and interactions with their environment in relation to the conservation and management of mammalian taxa.

Biology & Conservation of Herpetofauna*

focuses on developing your understanding of the biology, behaviour and ecology of the Amphibia and Reptilia classes, and introduce you to the conservation requirements of herpetofaunal species.

Biology & Conservation of Birds*

explores the evolutionary history of birds, their behaviour and ecology in relation to species decline, and their subsequent conservation and management.

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.

Marine Ecosystems: Policy & Management*

will develop your understanding of conservation policy, specific to the marine environment, in terms of the process (including creation and implementation). This module will also place emphasis on the value of marine ecosystems, and how they are utilised and managed in an historical, present and future context.

Wildlife in the Media*

will provide you with the unique opportunity to examine the wildlife media industry, analyse the psychology behind the use of animals in media and the issues surrounding the misrepresentation of species through media pathways. The module also aims to develop your skills in wildlife photography and film-making within a practical context.

Applications of Animal Behaviour for Conservation*

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

*Optional modules of study

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