



# BSc (Hons) Bioveterinary Science

**UCAS code** D300

**Institution code** H12

**Duration** 4 years (full-time) including a one-year work placement

**Start date** September 2019

**Location** [Harper Adams University campus](#) (and location of work placement)

## The course

Do you enjoy studying science and finding out how scientific principles can be used to prevent disease and improve the health of animals?

Are you interested in learning more about the biology of a range of animals (farm, companion and equine) in order to know what is best for their overall health? Then this four-year course could be the right choice for you. It is a highly vocational course where the underpinning sciences are relevant and useful. So time spent in the laboratory will be balanced with the study of live animals. Basic health sciences such as anatomy, physiology, immunology, nutrition and molecular biology are studied as are the sciences of animal disease – epidemiology, microbiology, parasitology, and pharmacology.

## A-level entry requirements

- Offers tend to be in the region of **104 - 120** UCAS points (min 3 x A2 passes)
- Students should typically be studying **3 subjects at A2 level** to be considered
- An understanding of a biological science based subject, for example Biology, Human Biology, Applied Science or Physical Education would be preferable. We would welcome applications from candidates offering other evidence of their suitability for this programme
- When combining qualifications no more than one Subsidiary Diploma will be considered alongside A levels (two A levels for BSc)
- No more than one art/design subject
- General Studies and Critical Thinking are encouraged but **not** included in grades required
- Applicants are encouraged to gain experience working with a number of different animals in different settings. Applicants should include details of this in their application. Experience of different animals will enable reflection and will help with many aspects as students' progress through the course.
- **4 GCSEs at grade C/4 or above**, including English Language, Maths and a Science
- Applicants can expect to receive offers including specific grades in specific subjects (for example, a B or C at A level, or an M or D for BTEC modules)
- Key Skills (and other level 2 variants) and First Certificates/Diplomas are not accepted in place of GCSE passes
- Overseas applicants please check our [English Language Requirements](#)
- The majority of candidates will not be called for an interview and a decision will be made via UCAS Track. However, for some students a telephone interview or campus based guidance session will be required. We will simply want to meet you to understand if the course is the right choice for you and to discuss your application in more detail. We will be keen to know your reasons for choosing the course and your career aspirations.

*Note: Entry Requirements are for guidance only, please check the UCAS website or contact Admissions for*

further information.

## Work placement

The one-year work placement allows you to put theory into practice, tackling real world situations and problems. We will help you to find a placement that suits your career aspirations and when you graduate you will do so with an enviable combination of education and experience.

Recent placements have included veterinary pharmaceutical companies, local authority animal health departments, research facilities, zoos and wildlife parks, veterinary practices, and commercial livestock farms.

## Teaching and learning

### What you study

Modules in the early part of the course are concerned with normal body structure and functioning along with aspects of molecular biology and genetics. The principles underlying animal health are followed by a study of the processes involved in animals' responses to disease and how animal diseases are spread. Companion animals and farm livestock are given equal weighting on the course.

There are also opportunities to choose modules which relate to horses, companion animals and animal welfare. This ability to choose allows you to specialise or gives you the flexibility to study over a wide area.

### Teaching and learning

Lectures are complemented by tutorials, visits and practical classes. Depending on the module, practicals may take the form of laboratory work, behaviour/welfare assessments or animal handling in the [Companion Animal House](#) or on the [University Farm](#).

### Assessment methods

A wide range of assessment methods are used. Depending on the module these include examination, assignments, practical spot-tests and presentations.

## Learning in Higher Education – how is it different?

Whilst a student's prior experience or qualifications should prepare them for Higher Education, most will find that study at university level is organised differently than they might have experienced at either school or college. Higher Education sets out to prepare students to think and learn independently, so that they are able to continue learning new things beyond their studies and into the workplace, without needing a tutor to guide them. This means that the time spent in classes with tutors provides direction, guidance and support for work that students undertake independently through:

- finding useful information sources and compiling bibliographies of reading material, in paper and online
- reading and making notes to help make fuller sense of subjects
- engaging with online materials and activities found on the College's own virtual learning environment
- preparing assignments to practise skills and develop new insights and learning
- preparing for future classes so you can participate fully

In order to develop the skills of a graduate (whether at Foundation Degree or Honours Degree levels), students are expected to not only be able to recall and explain what they know but also to be able to:

- **apply** what they know to new problems or situations
- **analyse** information and data and make connections between topics to help make sense of a situation
- **synthesise**, or draw together, the information and understanding gained from a range of sources, to create new plans or ideas
- **evaluate** their own work and also the work of others, so that they can judge its value and relevance to a particular problem or situation

Tutors will expect students working towards a Degree to be able to use what they know to solve problems and answer meaningful questions about the way in which aspects of the world work and not just rote-learn information that they have been told or read, for later recall. This means using all the bullet-pointed skills and to think critically by questioning information, whilst also being rigorous in checking the value of the evidence used in making one's own points. Students will be expected to become increasingly responsible for recognising the areas where they themselves need to develop. Taking careful note of tutor feedback can help to identify the skills and abilities on which attention could usefully be focused. To be successful, students need to be self-motivated to study outside of classes, especially since in higher education, these higher level skills need to be practised independently.

At Harper Adams students are gradually supported to become less reliant on class-based learning, so that they are able to spend a greater proportion of their time in their final year working on projects of interest to themselves and in line with their future career aspirations. Whilst in the first year of a course, a student might spend around one-third of their time in class, they will typically spend 15 - 20% in class by the time they reach their Honours year. At Harper Adams, we are fortunate to have not only an extensive estate and great facilities for students to use as a source of information and inspiration, we also have a well-stocked library and access to countless specialist sources of paper-based and online information. Many of the staff at Harper Adams are involved in research work, which helps ensure the content of the courses is at the forefront of the discipline. This also means that amongst the library books and online journals that students use, there may be some familiar names.

The [Bamford Library](#) and [Faccenda Centre](#) each have spaces in which students can work, either individually or in small groups, using either their own laptop computers or the provided desktop computers, all of which can access the network. Working spaces are zoned to reflect different working conditions, so there is a study space for everybody, whether they need silence or work better in a livelier environment.

## Careers

The grounding provided in both science and applied animal studies also opens up opportunities in many areas of research. It is important to realise that by studying this course you will not qualify as a vet (i.e. you can't diagnose and treat animals) but there are opportunities to work alongside vets and other scientists in the veterinary pharmaceutical companies that produce animal health products as well as in the animal nutrition or biotechnology industries.

Some graduates have gone on to study at veterinary school to eventually qualify as a veterinary surgeon.

You would also be well qualified to work as an animal health inspector for a local authority or Defra.

# What will I study?

Year	Study time (The percentage of time spent in different learning activities)			Assessment methods (This is the breakdown of assessment methods)		
	% time in lectures, seminars and similar	% time in independent study	% time on placement	Written exams	Practical exams	Coursework
1	38%	62%	0%	49%	0%	51%
2	35%	65%	0%	67%	0%	33%
3	0%	0%	100%	0%	0%	100%
4	38%	62%	0%	25%	0%	75%

Year 1	Year 2	Year 3	Year 4
Academic Skills Development (A4001C17) 15	Animal Disease Science (A5009C17) 15	Placement year	Honours Research Project (HRPROJ) 30
Fundamentals of Physiology (A4007C17) 15	Companion Animal Studies (A5012C17) 15		Integrated Health Management (A6018C17) 30
Applied Anatomy and Physiology (A4006C17) 15	Farm Animal Health (A5005C17) 15		Advances in Animal Production Science (A6001C17) 15
Companion Animal Management (A4013C17) 15	Farm Animal Nutrition (A5002C17) 15		Animal Improvement and Bioethics (A6005C17) 15
Large Animal Management (A4015C17) 15	Applied Biotechnology (A5010C17) 15		<b>Options</b>
Principles of Animal Health (A4011C17) 15	Animal Medicines (A5017C17) 15		Advances in Farm Animal Health, Welfare and Behaviour (A6003C17) 15
Laboratory Techniques (A4004C17) 15	Research Methods (Animals) (A5011C17) 15		Applied Companion Animal Health, Welfare and Behaviour (A6007C17) 15
Biological Molecules and Genetics (A4003C17) 15	<b>Options</b>		Advances in Equine Science (A6002C17) 15
	Introduction to Small Business Management (F5005C17) 15		
	Equine Science (A5013C17) 15		
	Animal Product Processing (F5006C17) 15		

## Academic Skills Development

**Year of study** 1

**Code** A4001C17

**Credits** 15

**Core/option** Core

**Module contact** [Mrs Emily Chapman-Waterhouse](#)

This module supports the development of students' personal, academic, employability and self-management skills for students in the first year of their undergraduate studies. Whilst the module provides a basis for the rest of the Professional Scholarship Programme it also supports learning in every other module. The module will be delivered throughout the academic year to students on animal-health related undergraduate courses. The main rationale for a first year module of this type is to ensure all students are fully equipped for higher education and to provide space in the curriculum in which to develop relevant skills to aid progression within and out with technically oriented modules. The key themes

addressed by this module include transition into higher education and beyond the first year, approaches to learning, independent study, effective communication for animal health-related vocations, reading and reviewing literature, referencing convention, using feedback for learning and using technology to enhance learning. Whilst the roots of the module are in academic skill development, learning resources and assessments will be tailored to the vocational areas relevant to students. Students will need to actively undertake a self- review of progress at regular intervals and develop action plans for self-development.

## Fundamentals of Physiology

**Year of study** 1  
**Code** A4007C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Jim Huntington](#)

This module introduces important anatomical terms and describes the concepts required to understand the processes involved in the functioning of organ systems and the maintenance of homeostasis in vertebrate species, including humans, food producing animals, companion animals and other species addressed within the programmes this module has been validated for. A broad knowledge of normal body structure and functioning provided by this module will be invaluable for students studying modules within the animal related programmes such as *Companion Animal Studies*, *Principles of Animal Health*, and *Animal Disease Sciences*. For those studying food related programmes the module will be invaluable for the study of *Well-being Through the Lifecycle* and later modules such as *Advanced Aspects of Nutrition*. This module is designed to be a prerequisite (for some courses) to either *Veterinary Physiology* or *Applied Anatomy and Physiology*.

## Applied Anatomy and Physiology

**Year of study** 1  
**Code** A4006C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Jim Huntington](#)

This module expands and builds on the important anatomical and physiological terms and concepts introduced in *Fundamentals of Physiology* that are required to understand the processes involved in the locomotion, growth, sensory perception and co-ordination of organ systems in maintain a healthy animal. A broad knowledge of normal body structure and functioning will be invaluable for students studying modules such as *Companion Animal Studies*, *Principles of Animal Health*, *Anatomy for Veterinary Physiotherapy*, *Musculoskeletal Dysfunction* and *Animal Disease Sciences*.

## Companion Animal Management

**Year of study** 1  
**Code** A4013C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Mrs Jennifer Sadler](#)

An understanding of companion animal management practices is essential for working within the animal industry to promote good health and welfare for companion, collection and experimental animals.

The module will provide learners with knowledge of relevant companion animal management practices with emphasis placed on environmental requirements, nutritional needs, and animal management.

The module will underpin several modules at Levels 5 and 6 including *Companion Animal Studies*, and *Applied Companion Animal Health, Welfare and Behaviour*.

## Large Animal Management

**Year of study** 1  
**Code** A4015C17  
**Credits** 15  
**Core/option** Core

It is important that students studying animal-based courses have an understanding of the systems involved with the keeping of large animals and appreciate the commercial context in which many of these animals are kept. This module will highlight the differences in the approach to the management of large animals in comparison to that for companion animals (covered in Companion Animal Management). The underpinning knowledge gained in this module will enable these students to evaluate behavioural adaptation and the welfare of large animals and understand how management can impact upon the health of the animal. The students will be introduced to the husbandry requirements associated with the most common agricultural systems involving animals such as cattle (dairy and beef), sheep, pigs, poultry and horses. Students will gain sufficient knowledge of the requirements of the system, and the effects of the management of the animal on its health and welfare status.

## Principles of Animal Health

**Year of study** 1  
**Code** A4011C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Malgorzata Behnke](#)

The immune system of domestic animals faces challenges from micro-organisms and parasites on a daily basis. Furthermore, the general public are at risk from zoonotic micro-organisms and parasites from the animals they keep and come in to contact with.

This module aims to develop students' knowledge and understanding of the micro-organisms and parasites that are important in animal health and the processes by which animals defend themselves against invasions of foreign organisms. This provides a crucial first step in understanding how these diseases can be controlled and will facilitate future learning in other modules which focus in more detail on control measures. Zoonotic risks are highlighted to enable students to identify at-risk situations and populations.

## Laboratory Techniques

**Year of study** 1  
**Code** A4004C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Jayne Powles](#)

Assessment of an animal's health status and the diagnosis of disease are often achieved by laboratory analysis of samples from the animal, feed and environment. This module will provide an understanding of laboratory safety and the general principles associated with sample collection, storage, processing and accurate and precise analysis. In addition, the student will gain confidence in the use of laboratory equipment and the interpretation of analytical results. The knowledge and experience gained will be essential for Animal Production Science and Animal Health Science modules where specific analytical techniques will be applied.

## Biological Molecules and Genetics

**Year of study** 1  
**Code** A4003C17  
**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 mammalian life. The use of this will develop an understanding of the structure and function of related biological macromolecules within an animal and its environment.

The knowledge gained from this module compliments **Laboratory Techniques** and **Applied Anatomy and Physiology**. It also forms a foundation for later modules in **Applied Biotechnology** in which key principles of DNA and protein structures are introduced.

## **Animal Disease Science**

**Year of study** 2  
**Code** A5009C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Leander McLennan](#)

This module aims to develop the student's knowledge of disease causing agents, teach them how disease affects the body, how the body responds, and how testing can be used to diagnose disease and disease-causing agents.

The module builds on the knowledge gained in Principles of Animal Health, and assumes a good working knowledge of normal anatomy and physiology.

## **Companion Animal Studies**

**Year of study** 2  
**Code** A5012C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Mrs Susan Jeavons](#)

An understanding of the principles of companion animal nutrition, health, and reproduction is essential for the successful management of companion animals.

This module is designed to introduce students to the principles of companion animal nutrition and the effects of differences in digestive anatomy. As well as the physiological processes on nutrients supply, nutrient requirements and diet composition.

Reproductive processes of a variety of companion animals will also be considered, with an understanding of how genetic information can be passed to the next generation in breeding programmes.

Companion animal health will be explored for a variety of companion animal species. The effect of health on welfare and behaviour will also be considered.

## **Farm Animal Health**

**Year of study** 2  
**Code** A5005C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Leander McLennan](#)

The public are now more aware of farming practices and animal welfare issues and with growing concerns

about antimicrobial resistance it is paramount that those involved with farmed livestock have a very good knowledge of both the maintenance of good health, through disease management, and of high standards of welfare which are fundamental to the success of efficient and acceptable animal production practices. This module will aim to provide students with an understanding of the importance of disease prevention, rather than treatment, and the ability to develop integrated disease control programmes to maximise livestock health and welfare.

## Farm Animal Nutrition

**Year of study** 2  
**Code** A5002C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Robert Wilkinson](#)

An understanding of factors affecting dietary nutrient supply and animal nutrient requirements is essential for ration formulation and the design of feeding strategies to optimise the efficiency of feed utilisation, product quality and animal welfare, whilst mitigating any detrimental effects on the environment. This module will examine the chemical components of animal feeds and develop an understanding of how the chemical composition of feeds contributes to nutrient supply in farm animals. It will also cover the main techniques associated with feed evaluation and develop the ability to calculate animal requirements and utilise quantitative data in the formulation of rations and feeding strategies for different classes of farm animals. It will also cover mineral/vitamin nutrition and the metabolic consequences of nutrient deficiency or excess.

- Analyse animal feeds to determine their chemical composition and nutritional value.
- Explain factors affecting nutrient supply from feeds and the nutrient requirements of farm animals.
- Evaluate diets to assess the adequacy of nutrient supply, predict performance.
- Formulate diets and feeding strategies to satisfy the nutrient requirements of different classes of farm animals.
- Relate the metabolic function of essential minerals/vitamins to symptoms of deficiency or toxicity.

## Applied Biotechnology

**Year of study** 2  
**Code** A5010C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Sandy Mackenzie](#)

This module develops further the principles of biotechnology, and the application of biotechnology to animal production, health and breeding. The knowledge gained from this module leads on from **Biological Molecules and Genetics** and complements other modules in which the key features of biotechnology and molecular biology are discussed.

## Animal Medicines

**Year of study** 2  
**Code** A5017C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Leander McLennan](#)

Pharmaceutical agents are used in many different ways in animal health and veterinary medicine, including treatment and control of disease, anaesthesia and pain management, and reproductive management. This module will introduce and discuss the legislative control of veterinary medicines and the principles of pharmacokinetics and pharmacodynamics. This module will also build on the knowledge gained in previous physiology modules to explore the different ways that drugs can affect an animal's physiological function, and treat disease states.

## Research Methods (Animals)

**Year of study** 2  
**Code** A5011C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Stephen Mansbridge](#)

The ability to collect, analyse and interpret data appropriately is a core skill for all those involved in modern animal science. In view of this, research skills are important to enable the critical appraisal of published research, and for the development of appropriate study designs to fulfil research objectives. This module forms part of the Professional Scholarship Programme (PSP) and is taken by all BSc and MSci students studying animal programs. The skills gained within this module are essential for the completion of the level 6 / 7 research projects in the final year. Students will learn valuable skills covering critical literature reviews, the importance of research designs and protocols in the context of quality assurance schemes, data collection / analysis and presentation of information. By carrying out statistical analysis using appropriate software during tutorials, the students will develop their ICT skills and further their understanding of the role of statistics in the research process.

## Introduction to Small Business Management

**Year of study** 2  
**Code** F5005C17  
**Credits** 15  
**Core/option** Option  
**Module contact** [Mary Munley](#)

This module provides a general introduction to business creation and management for students training to be animal health practitioners and other related disciplines in the veterinary sector. This module introduces students to the business planning approaches necessary to establish and manage a small business.

The module will present basic managerial concepts and techniques in marketing and finance that students need to understand to operate a small business. It enables them to acquire and demonstrate attitudes and skills necessary for communication, numeracy, problem solving and teamwork skills. It is designed to be a stand-alone module although students may have the opportunity to develop their interests further in subsequent modules.

## Equine Science

**Year of study** 2  
**Code** A5013C17  
**Credits** 15  
**Core/option** Option  
**Module contact** [Dr Malgorzata Behnke](#)

It is estimated that there are around 1 million horses in the UK and the equine industry is the second largest contributor to the rural economy behind agriculture. Consequently, the ability to successfully manage and maintain the well-being of horses is very important. The well-being of horses depends on the provision of an appropriate environment, adequate nutrition and the management of health status.

This module aims to develop an understanding of the principles of equine science, in particular environmental management, nutrition, health and reproduction. Common and important health problems associated with horses are covered and the roles of management and husbandry in their prevention and control are explored.

## Animal Product Processing

**Year of study** 2  
**Code** F5006C17  
**Credits** 15  
**Core/option** Option  
**Module contact** [Dr Karim Farag](#)

This module provides students with an understanding of food producing animals (milk and eggs) and animals as food. Scope includes primary processing of milk, milk products, eggs and egg products and primary and secondary processing of meat producing animals. Consideration of the factors affecting food quality and the changing utilisation and value of animal products for the food industry and consumers.

## Placement year

**Year of study** 3  
**Core/option** Core

Read our dedicated [Placement Learning](#) pages for information on the many benefits of the placement year.

## Honours Research Project

**Year of study** 4  
**Code** HRPROJ  
**Credits** 30  
**Core/option** Core

To qualify for an honours degree a student must demonstrate the capacity for sustained, independent and high quality work. One of the most important vehicles for the demonstration of this capacity, and for developing the necessary skills, is the individual Honours Research Project. Each student will therefore be required to complete such a project under the general supervision of a member of staff and present the results in a project report and in a viva voce exam, with two tutors, which will also test to a high level, skills of communication and rational argument. This major exercise represents one-quarter of the final year studies and will therefore have an important influence on the classification of award.

## Integrated Health Management

**Year of study** 4  
**Code** A6018C17  
**Credits** 30  
**Core/option** Core  
**Module contact** [Dr Claire Kershaw](#)

Often factors affecting animal health, disease, welfare and production such as nutrition, reproduction and epidemiology are taught independently. Within this module, students will learn the importance of considering how these individual factors influence one another. This module integrates these factors to develop student's ability to assess the management status of various animal management systems.

The application of knowledge and intellectual skills gained from the module and from experience within the animal industry will be required to formulate appropriate programmes for the maintenance of the health and welfare of the animals and also of the health and safety of staff members and the public.

## Advances in Animal Production Science

**Year of study** 4  
**Code** A6001C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Claire Kershaw](#)

This module is designed to develop the ability of students to analyse animal systems and developments in technology, including the application of precision techniques. The application of these technologies to sustainable, environmentally and animal welfare conscious production systems will be evaluated.

This module will build on knowledge gained in previous farm animal modules including Farm Animal Production Science, Farm Animal Science and Sustainable Livestock Production Systems.

The learning associated with the module will be achieved primarily through keynote lectures both from university staff and visiting speakers.

## **Animal Improvement and Bioethics**

**Year of study** 4  
**Code** A6005C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Carwyn Ellis](#)

With the rapid developments in animal breeding technologies an understanding of the processes involved and their application to modern livestock production is required. This module will provide the student with the opportunity to apply the genetic principles underlying animal breeding to a number of species of animals and systems of livestock production. To undertake this, students will require an understanding of the systems used in livestock production and other roles to which animals are currently put and may be used for in the future in the context of the socio-economic environment in which they operate. In addition, the relationship between animals and humans is explored and consideration is given to the ethical implications of the various roles of animals in society and the manipulation of animals by biotechnology.

## **Advances in Farm Animal Health, Welfare and Behaviour**

**Year of study** 4  
**Code** A6003C17  
**Credits** 15  
**Core/option** Option  
**Module contact** [Dr Moira Harris](#)

This module will deepen students' understanding of farm animal welfare and its links to animal health, behaviour and disease control. With the increasing public interest in the welfare of farm animals, an understanding of different indicators and how these may show an animal's welfare status is required by those involved in any aspect of animal production. The welfare of animals is important not only during their housing and management but in response to handling, transport and slaughter; this module will focus on the welfare of farm animals in all of these situations. There is also growing public concern for human food safety and the importance of animal health; graduates in all fields of animal science need to understand efficient diagnostic techniques and disease surveillance and possibilities for the future in this field. Understanding the production of effective animal medicines is also necessary.

## **Applied Companion Animal Health, Welfare and Behaviour**

**Year of study** 4  
**Code** A6007C17  
**Credits** 15  
**Core/option** Option  
**Module contact** [Mr Stephen Baugh](#)

An integrated understanding of companion animal health, welfare and behaviour is essential for the development of companion animal management programmes that ensure optimum welfare.

This module is designed to provide a detailed knowledge of the factors involved in the aetiology and development of common diseases seen in companion animals (cats, dogs, small mammals, birds and reptiles) and develops the skills required to recognise signs of ill health in animals and to develop disease control and prevention strategies.

The behaviour of companion animal species will be considered, how health can influence behaviour, why certain behaviours may be suppressed in domestic settings and how this may lead to the development of pathology and inappropriate or abnormal behaviours. The prevention and control of behavioural problems will also be considered.

Aspects of animal physiology, nutrition, health and general husbandry introduced in earlier modules will form an essential background for this module.

## **Advances in Equine Science**

**Year of study** 4

**Code** A6002C17

**Credits** 15

**Core/option** Option

**Module contact** [Carole Brizuela](#)

Knowledge of the scientific principles that underlie recent advances in areas relating to equine health, nutrition and reproduction is increasingly important in an industry that has advanced considerably over the last decade. This module will build on the concepts learned in Equine Science and allow the student to develop a deeper understanding of issues affecting the equine industry in these three areas. Considerable independent study will permit students to develop the ability to discriminate, evaluate and analyse information from a variety of sources.

- Evaluate current issues affecting equine health, nutrition and reproduction.
- Critically comment on future and potential developments within equine reproduction.
- Apply advances in animal disease and nutritional science to the management of equine animals.