



BSc (Hons) / BSc Agriculture with Animal Science (Top-up)

UCAS code	DD4H
Institution code	H12
Duration	1 year (full-time)
Start date	September 2019
Location	Harper Adams University campus

The course

Having completed a Foundation Degree or HND programme in Agriculture you may wish to top-up to either a BSc or BSc (Hons) degree, by studying full-time for a further academic year to specialise in the area of Agriculture with Animal Science.

Entry requirements

- Top-up applicants must have achieved an average of 55% in their Foundation degree to apply for BSc non-honours and 60% to apply for BSc Honours.
- Applicants must have completed a full year's placement as part of their course of study or two years of full-time relevant employment out with the family business after their course.

A-level entry requirements

- **Entry requirements for 2019 entry are not currently available. Please contact Admissions for advice**

Teaching and learning

What you study

Top-up programmes are structured around lectures, tutorials and practical classes designed to augment material covered in previous studies and allow students to develop the subject expertise and depth of knowledge required at BSc and BSc (Hons) degree level.

Teaching and learning

Top up courses at Harper Adams involve a combination of lectures, tutorials and laboratory sessions as appropriate for the subject area, together with use of the [University farm](#) to demonstrate principles in practice and the application of scientific, technological and business principles to commercial livestock production. In addition, the university has extensive links with other agricultural and food related businesses, and external visits and outside speakers are integrated into the programme. Students are

expected to apply the skills acquired to solve real-life problems, such that on completion they are able to demonstrate both academic ability and commercial application, which is a combination highly valued by employers. As part of the programme students undertake a dissertation in a subject area of their choice.

Assessment methods

Assessment is via a balance of course work and examination; this allows individuals to play to their strengths if they are better at course work than examinations or vice versa. Types of assignment include appraising production systems on the [University farm](#), whole farm case studies, laboratory based analyses and literature based reviews. Format of assignments varies and includes written reports, essays, technical notes, presentations and oral examinations. Students receive written feedback on all course work to help them improve.

What will I study?

BSc (Hons) Top-up

Year 1	
Honours Research Project (HRPROJ)	30
Research Methods (C5005C17)	15
Farm Animal Health (A5005C17)	15
Sustainable Animal Production Systems (A6024)	30
Advances in Animal Production Science (A6014)	15
Animal Improvement and Bioethics (A6019)	15

Honours Research Project

Year of study	1
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.

Research Methods

Year of study	1
Code	C5005C17
Credits	15
Core/option	Core
Module contact	Dr Edward Dickin

This module is the fourth in the Professional Scholarship Programme (PSP). The module particularly develops the skills and knowledge necessary to successfully complete the Honours Research Project, which will also enhance employability skill for the Placement Period and careers on graduation.

The module will cover the key elements of the research process, set in the context of the student's own course discipline. Students will examine the academic and industrial role of research and how it informs professional and managerial practice. They will enhance their ability to locate, select and critically evaluate information associated with a particular problem, using a range of sources and particularly peer reviewed empirical studies. In addition the students will plan, and justify the need, and investment for research in an effort to develop their insight into the management of practical research. By carrying out statistical analysis using appropriately accessible software, the students will develop their ICT skills and further their understanding of the role of statistics in the research process.

While the intended learning outcomes are common to all students across the University, this module provides discipline specific focus with content, learning and assessments that are tailored for subject/course needs, which will then lead to value interpretation and communication of research outcomes.

Farm Animal Health

Year of study 1
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.

Sustainable Animal Production Systems

Year of study 1
Code A6024
Credits 30
Core/option Core
Module contact [Professor Liam Sinclair](#)

Please contact the course manager for details of this module.

Advances in Animal Production Science

Year of study 1
Code A6014
Credits 15
Core/option Core
Module contact [Dr Claire Kershaw](#)

The manipulation of animal productivity requires a breadth of knowledge and understanding gained in earlier modules Farm Animal Health, Farm Animal Nutrition and Farm Animal Production Science. The application of this material to advances in technology is under continued development. This module is designed to develop the ability of students to analyse animal systems and developments in technology and their application to sustainable, environmentally and animal welfare conscious production systems. This will require the application of knowledge and intellectual skills gained in the modules identified above and from experience gained within the animal industry.

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

Animal Improvement and Bioethics

Year of study 1
Code A6019
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 relevance 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 biotechnological.

BSc Top-up

Year 1	
Degree Review Project (DRPROJ)	15
Farm Animal Health (A5005C17)	15
Sustainable Animal Production Systems (A6024)	30
Advances in Animal Production Science (A6014)	15
Animal Improvement and Bioethics (A6019)	15

Degree Review Project

Year of study 1
Code DRPROJ
Credits 15
Core/option Core

Although Ordinary Degree students are not required to engage in the research based major projects completed by honours degree candidates, it is necessary that they display the ability, at Honours level, to: learn independently and display the skills required for lifelong learning; to demonstrate awareness of the provisional nature of facts and principles and to marshal evidence and apply it in a balanced way in an argument and to draw soundly based conclusions. The development of these skills is the purpose of this module.

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