



BSc (Hons) Agriculture

UCAS code D400

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

With around 70 per cent of land in the UK devoted to primary food production, agriculture continues to be the mainstay of the rural economy. However, in addition to the science and technology associated with animal and crop production, the modern farm manager must manage an increasingly diversified business and embrace a range of responsibilities for enhancing the environment, integrating production within the food chain and maintaining rural communities. Our agriculture courses give students a thorough understanding of modern agricultural production systems and the underlying scientific and technological principles. They will equip you to manage a sustainable agricultural business in the complex and dynamic rural economy. This is a very broad and challenging remit, and consequently the course is designed to develop a breadth of expertise across a range of sectors. All agriculture students share a common first year, studying the same modules, before continuing with agriculture or focusing on a specialism; this allows students to change course during the first year.

FACTS training

Subject to academic performance, students passing the BSc (Hons) Agriculture programme will be eligible to be entered for free [FACTS](#) training at the end of their course.

A-level entry requirements

- Offers tend to be in the region of **96 - 112** UCAS points from a minimum of 3 A levels (the lower offer will be limited to those taking Science A Levels)
- General Studies and Critical Thinking are encouraged but **not** included in grades required
- Students should typically be studying **3 subjects at A2 level** to be considered
- There is a requirement for all applicants to have completed a minimum of 10 weeks work experience on a commercial farm by the 1st August. Gaining the relevant practical experience in advance of the start of the course is preferable. However, for applicants applying for our BSc (Hons) Agriculture programmes, who do not come from a farm background and who do not have the relevant contacts necessary to complete the work experience, we recognise that this may be difficult to achieve. Applicants who are assessed to be in this position, following interview, will be offered the opportunity to enter the course via the [Access to Agriculture](#) programme, where help to gain the relevant practical experience is provided during the first year of study.
- **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)
- **Biology A Level** (or equivalent) preferred (but not mandatory)

- When combining qualifications no more than one Subsidiary Diploma will be considered alongside A levels (two A levels for BSc)
- Overseas applicants please check our [English Language Requirements](#)
- All suitable applicants are expected to attend an interview which will form part of the selection process
- More information about the work experience required for this course can be found by clicking the link below
[Find out more about work experience](#)

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

Work placement

BSc students undertake placement in their third year. You will have a dedicated Placement Manager, support officer, and tutor to visit you whilst on placement. You will usually undertake paid employment for at least 12 months on modern progressive farms or in the agricultural support industries. Agriculture students from a family farm wishing to undertake a farm placement are required to work at least 50 miles from their home farm and are not normally permitted to return to previous employers. Recent placement jobs have included Assistant Herds Person, Harvest Team Manager and General Machinery Operator on a range of arable and mixed farms. Examples of employers include Velcourt, MH Poskitt and Faccenda. Students also have the opportunity to access a range of overseas placements, with the support of supporting agents, where possible. Students may undertake placement in the USA, Australia or New Zealand, for example. Several commercial scholarship opportunities, linked to placement, are available to apply for, with sponsoring companies paying a significant amount towards the tuition fees of successful applicants.

Teaching and learning

What you study

Students studying general Agriculture study a broad range of livestock, crop production and science, and business management, together with some marketing and mechanisation. In the first part of the course the focus is on practice i.e. what goes on on-farm, and basic biological and environmental science. Areas of study include animal and crop production systems, bioscience and environmental science for agriculture, an introduction to farm business management and marketing, and agricultural mechanisation.

The later parts of the course focus on the applied scientific and business principles that underpin farm practice, and the application of practice and principles to case studies to solve real problems. Areas of study include farm animal production science and nutrition, farm animal health and welfare, soil management and crop nutrition, crop protection, farm business management and economics, business development, people management, and sustainable animal and crop production systems. All students undertake a research or professional project in their final year in a subject area of interest to them.

Teaching and learning

The Agriculture courses at Harper Adams involve a combination of lectures, tutorials and laboratory sessions, together with practical classes on the [University farm](#) designed to demonstrate principles in practice and the application of scientific, technological and business principles to commercial agricultural and food 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. Throughout the course 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. The proportion of independent study increases as the course progresses, particularly in the final year where students have the opportunity to undertake a dissertation in a subject area of their choice.

Assessment methods

Assessment is via a balance of course work and examination. Weighting varies depending on course and year of study, but weighting is typically around 65 per cent on course work and 35 per cent on 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. In addition, first year students undertake examinations in two subjects at the end of the first term to enable them to gauge how they are progressing and feedback is provided on these exams. Staff are able to provide advice and guidance on revision, and many modules include revision sessions.

Careers

Employability of agriculture graduates is excellent, and there are many diverse career opportunities in all sectors of the food chain. The applied nature of our courses, teaching methods and close links with industry give you the academic, technical and employment skills which are highly sought after by employers.

As an agriculture graduate you may go on to manage farms either at home or elsewhere (e.g., Velcourt, Sentry Farming, Beeswax Farming, Intercrop). Alternatively, you may opt for a career in the support industries (e.g. Frontier Agriculture, NFU) or advisory services (e.g. Brown&Co, Defra, DARDNI, ADAS). Studying agriculture also develops the skills needed for other graduate careers such as accountancy, teaching, journalism and the civil service.

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	33%	67%	0%	41%	0%	59%
2	27%	73%	0%	31%	0%	69%
3	0%	0%	100%	0%	0%	100%
3	0%	0%	100%	0%	0%	100%
4	18%	82%	0%	31%	0%	69%

Year 1		Year 2		Year 3		Year 4	
Skills for the Agricultural Professional (C4001C17)	15	Grass and Forage Production and Utilisation (C5004C17)	15	Placement year		Honours Research Project (HRPROJ)	30
Animal Production Systems (A4005C17)	15	Wastes, Manures and Renewables (C5007C17)	15			People Management Skills (R6018C17)	15
Crop Production Systems (C4013C17)	15	Farm Business Management and Economics (R5003C17)	15			Sustainable Animal Production Systems (A6022C17)	30
Bioscience for Agriculture (C4011C17)	15	Research Methods (C5005C17)	15			Sustainable Crop Production Systems (C6014C17)	15
Environmental Science for Agriculture (C4014C17)	15	Farm Animal Nutrition (A5002C17)	15			Agricultural Business Development (R6003C17)	15
Assessment of the Farm Business (R4010C17)	15	Farm Animal Production Science (A5001C17)	15			Farm Animal Health (A5005C17)	15
Agri-food Marketing (F4005C17)	15	Soil Management and Crop Nutrition (C5006C17)	15			Applied Crop Protection (C6004C17)	15
Agricultural Mechanisation and Buildings (E4001C17)	15	Crop Protection and Technology (C5003C17)	15				

Skills for the Agricultural Professional

Year of study 1

Code C4001C17

Credits 15

Core/option Core

Module contact [Terry Pickthall](#)

This module helps develop students' confidence and competence in the academic skills and professional practices that will enable success within their Agriculture course. The module has four main strands or themes:

1. **Academic skills** including exploring Reading for Success, writing in different ways and information searching.
2. **Professional futures** preparing for placement and employment.
3. **Learning well** which promotes students' self-monitoring and planned improvements in individual approaches to learning.
4. **Digital citizenship** where students review the online and information technology skills that they need to succeed in study and in their professional practice.

Agriculture students will follow a common study programme, but they will be encouraged to spend more

time on areas of development that they recognise as challenging. The module is designed to equip students with skills but also with personal resilience, the ability to take control of their own learning, the ability to study independently and to introduce them to the concept of continuing professional development.

Animal Production Systems

Year of study 1

Code A4005C17

Credits 15

Core/option Core

Module contact [Dr John Donaldson](#)

An understanding of livestock production underpins many careers within the land based sector and forms a significant part of the global food industry. As such, an understanding of livestock systems is required across a range of courses.

The module will provide learners with a knowledge of the main livestock systems and how these systems inter-relate with other sustainable land based activities. The various systems will be considered in terms of input requirements, production and husbandry and analysis and interpretation of physical and financial performance data. The module will also consider aspects of sustainable production both in terms of changes to EU support and in light of global population changes.

You will:

- Develop an understanding of the systems of management for the various meat, milk and egg producing systems in the UK and EU and how these are impacted upon by changing legislation and consumer requirements.
- Identify the factors which influence the quality and safety of produce derived from farm animal production systems.
- Relate the requirements of farm animals to land type, building design, equipment and housing systems employed.

Crop Production Systems

Year of study 1

Code C4013C17

Credits 15

Core/option Core

Module contact [Mr Matthew Rodenhurst](#)

The module will cover the crop production processes characteristic of NW Europe, including wheat, barley, oilseeds, potatoes, sugar beet, grassland and forage. You will focus on 'best practice' crop production methods for a range of food and non-food crops and will be related to the need for resource efficient, economic and environmentally acceptable production linked, where necessary, to the current EU and UK Single Payment Schemes.

The module will provide the necessary basic understanding of crop production practices and the related regulatory framework appropriate for higher level study. The module will provide underpinning crop production knowledge for a range of crop science and agronomy modules.

You will:

- Identify the essential requirements for the establishment, growth, development and market requirements of a range of crops.
- Explain and interpret the underlying concepts and principles of crop production associated with current best practice.
- Relate the short and long term factors influencing crop management to appropriate farm practice.
- Interpret qualitative and quantitative data relevant to crop production practices.
- Assess the wider consequences of crop production activities in the context of sustainable production systems.

Bioscience for Agriculture

Year of study 1

Code C4011C17

Credits 15

Core/option Core

Module contact [Dr Laura Vickers](#)

This module will develop an understanding of the basic physiological processes that occur in both plants and animals. By the end of this module students should have an understanding of co-ordination and digestion in farm animals, the importance of morphology, photosynthesis, translocation and water relations in plants, and the diverse roles that micro-organisms play in plant and animal production systems. In addition, this module provides an introduction to basic laboratory skills.

The information gained in this module forms a foundation for later Animal Science and Crop Science modules.

You will:

- Describe underpinning biological and chemical processes in agricultural and applied sciences, and apply basic laboratory techniques in the study of animals, plants and micro-organisms.
- Identify the similarities and differences in the key biological processes taking place in microbes, plants and animals and relate how these processes contribute to growth and replication.
- Explain the necessity for co-ordination in animals and plants and describe how this is achieved via chemical and nervous control mechanisms.
- Identify and explain the functions of major anatomical structures and their roles in plants and animals.

Environmental Science for Agriculture

Year of study 1

Code C4014C17

Credits 15

Core/option Core

Module contact [Dr William Hartley](#)

The aim of the module is to provide students with an understanding of how agriculture interacts with the surrounding environment. There will be an emphasis on sustainability and the ecological consequences of unsound management decisions on conservation. The nature of soil and water systems will be investigated, and the factors which influence natural soil systems identified, soil formation, soil properties and hydrological relationships will be studied whilst the effect of climate change on soils and water will also be investigated.

You will:

- Define the effects of natural and human-induced processes upon soil formation.
- Explain the effects of climatic change on soils.
- Classify different soil types and recognise simple soil profiles.
- Identify the distribution of valuable habitats in lowland and upland environments.
- Describe the hydrological cycle in detail and its importance to agricultural sustainability.

Assessment of the Farm Business

Year of study 1

Code R4010C17

Credits 15

Core/option Core

Module contact [Wyn Morgan](#)

This module is designed to introduce students to the basic knowledge needed to determine areas of strength and weakness within a farming business. Students will be introduced to basic business concepts associated with the recording and reporting of business and enterprise performance. They will then be

introduced to techniques for analysis and evaluation of the data, to include different types and sources of external comparative data.

You will:

- Explain the role and scope of management in the farm business.
- Prepare and interpret a set of farm management accounts.
- Identify and analyse the performance of individual enterprises.
- Discuss the administrative methods/systems that are required in order to produce management data.

Agri-food Marketing

Year of study 1
Code F4005C17
Credits 15
Core/option Core
Module contact [Patricia Parrott](#)

This module will provide students with knowledge of the marketing systems and market opportunities of major agricultural commodities open to primary producers. It will consider and evaluate the global and dynamic market forces affecting the interdependent players of the agri-food supply chain from primary producer to the end consumer and the extent to which this influences the primary producer's approach to agri-food production and marketing. It will cover the concept of 'farm to fork' and where alternative opportunities exist for primary producers and agricultural businesses. The role of market planning and management of risk along with methods by which this may be achieved will be reviewed in order to result in higher levels of efficiency, effectiveness and market returns.

You will:

- Identify and explain the factors influencing changes in production, channels of distribution and consumption within the UK for major farm commodities.
- Appraise the global business and market environmental factors that influence the UK agri-food supply chain.
- Identify the role of market planning in UK farm businesses and methods to maximise producer returns and manage risk.
- Discuss the alternative marketing systems and options open to primary producers for best use of resources and sustainability.

Agricultural Mechanisation and Buildings

Year of study 1
Code E4001C17
Credits 15
Core/option Core
Module contact [Dr Simon Woods](#)

Modern farming systems rely heavily on mechanisation and farm infrastructure. Those involved in the farming industry need to be familiar with the basic operating principles and management of these assets and require an understanding of how machinery is combined to perform different tasks. This module is designed to enable the student to understand the operating principles of the more common agricultural machines and equipment and to comprehend the management of mechanisation systems in to which they are integrated.

To successfully complete this module, students will have to demonstrate understanding of a broad range of scientific, economic and business concepts and principles relevant to farm mechanisation.

Grass and Forage Production and Utilisation

Year of study 2
Code C5004C17
Credits 15
Core/option Core
Module contact [Louisa Dines](#)

Feed and forage costs are one of the largest drivers of cost of production on livestock units. Improving the quantity and quality of forage a business can produce and utilising it efficiently, is a crucial element to maintaining competitiveness in the current economic climate. Small improvements in the productivity and utilisation of these crops can have a major impact on the economic performance and therefore viability of livestock production systems. These improvements can include better variety and site selection, better establishment and agronomic management, more accurate assessment of appropriate harvesting/grazing time and method, appropriate storage conditions and more accurate assessment of nutritional quality.

This purpose of this module is to introduce the key features of grassland and the main alternative forage crops and describe their suitability for different sites and production systems. It covers the principles and practices of production, harvesting, storage and effective utilisation of a range of grass and forage crops whilst considering the impact of forage production and utilisation on the environment and how any potential negative effects can be mitigated.

Wastes, Manures and Renewables

Year of study 2
Code C5007C17
Credits 15
Core/option Core
Module contact [Paul Lewis](#)

Population growth and human lifestyle are increasingly putting pressure on the earth's natural resources, with many activities being far from sustainable. Waste production and waste/energy management are key issues for policy makers and advisors. A major influence on future planning is climate change, which may impact on many of our natural resources and agricultural systems. Careful, appropriate and innovative approaches to managing resources are therefore necessary.

This module focuses on three key areas, waste production and management, organic manures, both farm and off-farm, and renewable energy. In detail it investigates how waste can be minimised and utilised for secondary value, particularly within agriculture. It includes study of the waste hierarchy and its implementation, manure management, energy conservation and renewable energy. The approach will be wide-ranging but there will be an overarching emphasis on agricultural and rural examples with environmental implications.

Farm Business Management and Economics

Year of study 2
Code R5003C17
Credits 15
Core/option Core
Module contact [Tony Asson](#)

This module builds on knowledge from the first year module Assessment of the Farm Business by introducing students to whole farm business planning techniques in the context of the assessment of the external business environment.

The module incorporates applied agricultural economics (differentiated from neo-classical economics and economic theory and formulation expected on an Ag Econ programme) to develop an understanding of the wider issues and drivers affecting prospects in the main commodity sectors. Incorporating further assessment of the productivity factors of the business (Land; labour; capital etc.) and building on identified strengths and weaknesses within the business identified through the application of assessment techniques, students will be introduced to forward budgeting and planning techniques at enterprise and whole business levels.

Research Methods

Year of study 2
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 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.

Farm Animal Production Science

Year of study 2
Code A5001C17
Credits 15
Core/option Core
Module contact [Dr Emma Bleach](#)

Knowledge of the scientific principles underlying the processes of reproduction, lactation and growth in farm animals is vital for successful commercial production and for further manipulation of the processes to enhance efficiency. This module extends knowledge gained in *Bioscience for Agriculture and Animal Production Systems* and underpins the application in the Honours level module *Sustainable Animal Production Systems and Advances in Animal Science*.

Soil Management and Crop Nutrition

Year of study 2

Code C5006C17

Credits 15

Core/option Core

Module contact [Dr William Hartley](#)

The aim of this module is to quantify and interpret soils physical, chemical and biological properties and relate them to plant nutrition. Soil will be viewed as a habitat, focusing on interactions between soil flora and fauna and their abiotic environment (pH, water, atmosphere, temperature). Soil properties will be linked to mineral nutrient release and availability in the rhizosphere, whilst soil water and drainage will also be assessed. Soil conservation and the impact of anthropogenic activity on the agricultural environment will also be investigated.

Crop Protection and Technology

Year of study 2

Code C5003C17

Credits 15

Core/option Core

Module contact [Dr John Reade](#)

Although considerable improvements have been made over the last half a century, loss of yield and quality still represent by far the largest constraining issues facing crop production. This module allows students to fully investigate integrated and sustainable crop protection solutions to address this. An integrated approach needs to synergistically consider physical, cultural, biological and chemical approaches to the management of weeds, pests and diseases. Accurate identification is vital, and a full understanding of the lifecycles and associated integrated management of weeds, pests and diseases is essential for using pesticides efficiently, for the reduction of pesticide resistance and to make crop protection more environmentally acceptable. Current legislation requires that all pesticides are approved and that all advisors and users of pesticides are competent to perform the duties required of them. Persons employed in production agriculture, who may be involved with the use of pesticides, should therefore be fully conversant with the principles and practice of pesticide use and be fully aware of the potential hazard they pose to operators, consumers, wildlife, the environment and to cropping systems. In addition, students involved in the planning, development or assessment of pest management programmes require a thorough grounding in the principals involved in pesticide formulation and application. Precision detection, mapping and application in crop protection (and other new technologies) will be discussed throughout the module.

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.

People Management Skills

Year of study 4
Code R6018C17
Credits 15
Core/option Core
Module contact [Nigel Hill](#)

The structure of UK agriculture over recent years has resulted in an increase in size of farms and a reduction in the number of employed staff. However, the cost to farm businesses of poor people management skills is substantial, so it is essential that students have an understanding of the effective management of people.

This module is designed to develop an understanding of human motivation and management style, the responsibilities of employer and employee and an appreciation of how to manage effective interpersonal relationships at work, particularly drawing on experiences from placement. Group work and digital activities particularly will develop the graduate skills required for the rapidly changing workplace environment.

Sustainable Animal Production Systems

Year of study 4
Code A6022C17
Credits 30
Core/option Core
Module contact [Professor Liam Sinclair](#)

This module is designed to develop the ability of students to analyse UK and world animal systems, resolve associated problems and to ensure a sustainable, environmentally and animal welfare conscious production system that is profitable. This will require the application of knowledge and intellectual skills gained throughout the course, and from experience gained within the animal industry.

Each student will study 4 distinct production system themes: Sustainable Dairy Systems, Upland Systems, Lowland Systems or Pig and Poultry Systems. The learning associated with the module will be achieved through keynote lectures, visits, farm classes, outside speakers, tutorials and laboratory analyses and the independent learning associated with the assignment. Additionally there will be an examination paper.

Sustainable Crop Production Systems

Year of study 4
Code C6014C17
Credits 15
Core/option Core
Module contact [Dr Martin Hare](#)

This module examines the factors affecting the sustainability of agriculture and takes a holistic view of how farming methods and systems can address these factors. The module deals primarily with cropping

systems as it is designed to allow students with a crops focus to apply their technical knowledge of production practices within a sustainability context. The module therefore builds on, and brings together, elements and prior knowledge obtained from previous study and experience. The main theme within the module will be the concept of sustainable intensification and the integrated farm management production system. The role of agriculture in biofuel production will also be explored.

Agricultural Business Development

Year of study 4
Code R6003C17
Credits 15
Core/option Core
Module contact [Tony Asson](#)

This is an integrated farm business management module in which techniques and knowledge from earlier farm management and production modules are combined holistically. This module brings together learning from earlier farm business management modules together with the knowledge gained from technical subject areas to enable students to create appropriate solutions to farming scenarios within different farming supply chains. The students will be using these technical and business management skills in a simulated real life farming scenario.

Graduates studying this module may or may not be employed in farm management or farm consultancy positions, but the module will give them with the skills and competences to understand the consequence of decisions made elsewhere in the supply chain on the sustainability of the farm business.

Farm Animal Health

Year of study 4
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.

Applied Crop Protection

Year of study 4
Code C6004C17
Credits 15
Core/option Core
Module contact [Louisa Dines](#)

This module is concerned with enabling students to make informed decisions on appropriate crop protection measures for the major Northern European arable crops through critical evaluation of relevant research and knowledge of legislative requirements and commercial constraints.

It will build upon the principles of basic crop agronomy taught in the module Crop Production Systems and the principles behind the use of plant protection products taught in the modules Crop Protection and Technology and Crop Production Science to synthesise comprehensive crop protection programmes. It will be complementary to the Advanced Agronomy module which focuses on specific areas of research which will be critically evaluated to inform the crop protection programmes synthesised in this module.

Upon completion of this module students will have achieved competencies in line with the pre-requisites

required for access to the BASIS Certificate in Crop Protection which is a statutory requirement for those giving advice on plant protection products.