

### **Module Summary**

- Introduction to Business Management

This module aims to provide a broad knowledge of key concepts in business management and accounts, including financial statements and business communication.

- Animal Science

This module provides the underpinning scientific knowledge to enable students to apply biological principles to livestock production systems. It gives an introduction to the principles of anatomy and physiology, microbiology, genetics and animal nutrition. The biological principles and concepts will be applied to agriculture and farm animals.

- Academic Development & Employability

This module is intended to equip students with the academic skills and understanding that will enable them to fully function as independent learners and emerging agriculture professionals and to benefit fully from their undergraduate studies.

- Farm Technology & Mechanisation

This module aims to provide students with an insight into the development and role of mechanisation and the technological systems that can be utilised at farm level to allow agricultural operations to be completed in a timely, accurate and sustainable manner to maximise productivity.

- Enterprise Studies

The module aims to equip students with the knowledge, skills and understanding to enable them to assume day-to-day management responsibility of two selected farm enterprises. On successful completion of the module the students should have achieved competence in a range of technical skills for the enterprises selected, including use of recording systems, interpretation of data, written and oral communication, self-management, and group skills.

- Grass Systems

This module allows students to develop an understanding of the production, conservation and utilization of grass within the context of UK agriculture. Upon completion of this module students should be able to select, grow, harvest and store appropriate types/varieties of grass and to assess how they may fit into a range of grass based sustainable farming systems.

- Arable Crop Studies

This module aims to provide knowledge of the science of arable crop production, the key factors affecting growth, maturation, harvest, and storage, and relates these to the underpinning principles of plant growth and development.

- Livestock Husbandry, Health & Welfare

This module provides an introduction to livestock production. It addresses the basic husbandry and the yearly production cycles for dairy, beef, sheep, pig, and poultry enterprises examining breeds, reproductive management, feeding, animal health, disease prevention and control, and welfare. The main products, markets and quality standards of farm animal enterprises are also explored. Farm quality assurance, traceability and the importance of safe ethical food production are also considered.

- Farm Machinery

Students will be provided with knowledge of the functional characteristics and operating principles of engines, tractors and agricultural machinery, delivered within the context of current health and safety requirements.

- Production, Principles and Practice (Horticulture)

This module introduces students to best practices for growing a range of extensive and intensive horticulture crops and enables the practice and development of technical skills through practical experience. Students have the opportunity to apply and evaluate a range of specific scientific and technical processes.

- Farm Business Management

This module will assist learners in the development of an understanding of farm management through the preparation and analysis of financial and management accounts, cash flow statements and business planning tools. It will also assist with the understanding of economic principles, marketing and the agri-food supply chain, the impact of EU policy, and the role of ICT in the management of a farm business.

- Crop Production Systems

This module develops the students' knowledge of production cycles for the major agricultural arable crops, as well as introducing students to a range of alternative crops, such as willow for biomass. It allows students to develop skills in assessment of crop performance, benchmarking and crop rotation planning.

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- Ruminant Production Systems

This unit familiarises the student with the current production environment for the main UK ruminant livestock enterprises and builds on the basics of livestock husbandry to provide an increased understanding of the scientific principles and applied technology involved in livestock production enterprises as applied to breeding, feeding, disease control, and animal welfare components of livestock production. Enterprise profitability, and the factors influencing are also examined.

- Improving Business Opportunities

Recognising and improving business opportunities is core to many sectors in the agriculture industry. This module provides an insight into the potential for business development, examines the factors influencing success and provides an overview of the challenges which may be encountered.

- Pig and Poultry Production

This unit seeks to give the student an in depth understanding of the chief components of pig and poultry production enterprises to enable students to make cost effective management decisions.

- Farm Buildings & Mechanisation

This module aims to provide students with a broad knowledge of key concepts of farm building construction and design. It also includes the requirements for the safe storage of fodder, methods and equipment for feeding stock, dairy systems, forage conservation systems and waste management systems.

- Work Placement

This module is designed to give students work experience in a real life situation in order to help them develop the interpersonal and applied business, scientific and technical skills required for employment in the industry. Areas such as professionalism and customer needs are also covered. This module comprises an induction programme, seminars and briefings and a 12- week work placement.

- Developments in Agriculture

Using subject knowledge and research skills, the student will be in a position to critically analyse the advantages and disadvantages of developments in agriculture both for the module and in a future career.

- Human Resource Management

This module aims to provide a broad knowledge of key concepts in supervisory and human resource management and how this facilitates business effectiveness.

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- Organic Agricultural Production

This module introduces the key philosophies, principles and practices of growing livestock and crops in an organic system and outlines the relevant standards and legislation. It facilitates the knowledge and understanding required to devise a management plan incorporating organic systems for a range of enterprises.

- Research Methodologies & Data Analysis

This module will provide students with the essential underpinning knowledge, understanding and intellectual skills in the key principles, methods and processes in the design of quantitative and qualitative research in order to test hypotheses and solve problems, to analyse and interpret findings and present in an appropriate manner to a target audience.