



Validated by:



UNIVERSITY  
OF HULL

*BSc (Hons) Bioveterinary Science*

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## **Applicant Programme Guide**

# Contents

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<b>Award Details</b> .....	<b>1</b>
<b>Entry Requirements</b> .....	<b>1</b>
<b>How to Apply</b> .....	<b>1</b>
<b>1. Introduction</b> .....	<b>2</b>
<b>2. Programme Aims</b> .....	<b>2</b>
<b>3. Programme Structure</b> .....	<b>3</b>
3.1 <i>Programme of Study</i> .....	3
3.2 <i>Modules</i> .....	4
3.3 <i>Work Based Learning</i> .....	7
<b>4. Delivery</b> .....	<b>8</b>
4.1 <i>Teaching and Learning Approach</i> .....	8
4.2 <i>Learning Resource Centre</i> .....	8
4.3 <i>Assessment and Feedback</i> .....	9
4.4 <i>Timetables</i> .....	9
4.5 <i>Extra-Curricular Work Experience</i> .....	9
<b>5. Facilities</b> .....	<b>9</b>
<b>6. Student Skills and Support</b> .....	<b>10</b>
<b>7. Fees, Equipment and Additional Costs</b> .....	<b>11</b>
<b>8. Graduate Opportunities and Progression</b> .....	<b>12</b>
8.1 <i>Graduate Opportunities</i> .....	12
8.2 <i>Progression</i> .....	12
<b>9. Contact Us</b> .....	<b>12</b>

## Award Details

Programme	BSc (Hons) Bioveterinary Science
Duration Options	<ul style="list-style-type: none"><li>• Full time (3 years) or Part time (5 years)</li><li>• Level 6 Top Up (1 year)</li></ul>
Validating Partner	University of Hull
Location of Study	Riseholme

## Entry Requirements

Applicants are required to have:

- A minimum of 104 UCAS points
- GCSE English Language at grade C/4 or above, or an equivalent qualification
- An appropriate academic reference

UCAS points may be from qualifications such as A-Levels, BTEC Level 3 Extended Diplomas, Access to HE Diplomas, and City and Guilds Advanced Technical Diplomas amongst others. Please use the UCAS Tariff points calculator to determine the UCAS points value of your qualifications: <https://ucascomsb1.ucasenvironments.com/ucas/tariff-calculator>

- Life and/or experience of non-traditional students will be taken into account when considering applications. The successful completion of an entry task may be required when considering applications without the required formal entry qualifications.
- If first language is not English, or a Tier 4 student visa to study is required and GCSE grade C/4 English or equivalent is not held, English language proficiency level such as International English Language Testing System (IELTS) 6.0 overall (with a minimum 5.5 in each skill) will need evidencing.
- Students with an appropriate HNC can apply for direct entry to Level 5.
- Students with an appropriate Level 5 qualification can apply for direct entry to Level 6 (Top Up).

## How to Apply

Full Time Application Route	Online via UCAS: <a href="http://www.ucas.com">www.ucas.com</a>
Course Code	D422
Institution Code / Campus Name (Code)	B37 / Riseholme (R)
Part Time Application Route	Online via the College Website: <a href="https://www.riseholme.ac.uk/college/apply">https://www.riseholme.ac.uk/college/apply</a>

# 1. Introduction

*The aim of the Bioveterinary Science program is to produce students with a sound academic and practical knowledge of the disciplines and factors that relate to animal science in relation to a range of species and areas of the animal industry. There is an increasing demand for people with a combination of both academic and practical competence within the animal management industry. Therefore, you will partake in a course which is both vocational and applied in nature to the subject content studied.*

## 2. Programme Aims

*The aims of the programme are:*

- To produce students with a sound academic and scientific knowledge of concepts and practical knowledge of the disciplines and factors that underpin and support the animal management industry in the chosen field.*
- Encourage appropriate professional attitudes such as initiative and motivation as benefits the needs of employers within the animal management industry.*
- Provide the knowledge, intellectual rigour and skills development required for various aspects of the animal management industry.*
- Provide the practical skills needed for working within the animal industry in the chosen field.*
- Demonstrate an awareness of health, welfare and ethical issues related to a range of species.*
- Develop analytical skills and appropriate professional attitudes required for working in the animal industry.*

### 3. Programme Structure

#### 3.1 Programme of Study

The academic year is split into two semesters, each of 15 weeks duration. The structure of the programme of study is shown in the table below, with the credit weighting in brackets.

Level 4 – Year 1	
Semester 1	Semester 2
<i>Academic and Professional Skills (20)</i>	<i>Personal and Professional Development in the Animal Industry (20)</i>
<i>Comparative Anatomy &amp; Physiology (20)</i>	<i>Animal Health and Nutrition (20)</i>
<i>Practical Animal Behaviour and Science (20)</i>	
<i>Animal Biology and Introduction to Laboratory Science (20)</i>	

Level 5 – Year 2	
Semester 1	Semester 2
<i>Reproduction and Breeding Management (20)</i>	
<i>Business Management (20)</i>	
<i>Animal Welfare and Legislation (20)</i>	
<i>Research Design and Statistical Analysis (20)</i>	
<i>Behaviour and Management of Production Species (20)</i>	
<i>Cellular Processes and Biochemistry (20)</i>	

Level 6 – Year 3	
Semester 1	Semester 2
<i>Animal Production Systems (20)</i>	
<i>Laboratory and Veterinary Diagnostic Techniques (20)</i>	
<i>Disease Process, Immunology and Healing (20)</i>	
<i>Molecular Biology (20)</i>	
<i>Dissertation (40)</i>	

## 3.2 Modules

You will study the following modules throughout your programme.

### Level 4

#### *Academic and Professional Skills*

*A range of transferable skills are required to aid you in your academic and professional development. Such skills underpin your ability to achieve and excel in your chosen subject specialism. Development of ICT skills across a range of commonly used software will support you in the production of your assessments and of professional documents in your future careers. An understanding of a range of academic skills such as study strategies, assessment planning, time management skills, communication skills, presentation skills, interpersonal skills, critical thinking, referencing and note taking skills will be developed within this module. The module will also include an introduction to the scientific approaches and ethical considerations related to the subject specialism.*

#### *Comparative Anatomy & Physiology*

*Science is an integral part of any animal management programme so this module is designed to give you knowledge and understanding of the functioning of the individual body systems within a range of species. An introduction to the links between the biology, the brain and behaviour. Together with a basic introduction to cell biology, the module will give you the fundamental biological knowledge needed throughout the programme, and enable you to understand more completely the behaviours observed that are studied in other modules.*

#### *Personal and Professional Development in the Animal Industry*

*This module aims to begin your professional development by making you aware of the personal and professional skills required for lifelong learning within your field of study. It will complement the Academic and Professional Skills module also studied at level 4. You will develop job searching skills and identify the competences required for various roles. This will lead to personal skills analysis and the development of personal action plans which can spread over the three years of your study. Early and thorough preparation for employment will give you time to focus on gaining the skills and experience which you need to develop for your chosen career, putting you in a better position for gaining employment upon graduation. The module will also develop knowledge and understanding of relevant employment practices and legislation, in order to better understand both recruitment processes and working roles.*

#### *Animal Health and Nutrition*

*This module will provide you with a basic knowledge of animal health and nutrition. The module will emphasise both the practical aspects of health and*

*nutrition with an underpinning of the accompanying biological concepts. In addition, an investigation of the comparative anatomy and physiology of gastro intestinal tracts will be conducted.*

#### *Practical Animal Behaviour and Science*

*The purpose of this module is to ensure you gain the necessary knowledge and practical skills in the area of animal husbandry. For anyone working with animals, irrelevant of what field, it is essential that they an understanding of both daily management and practical handling. Students must have an understanding of animal behaviour to be able to care effectively for any species. This module will introduce a range of behavioural concepts to give you both an academic and practical insight into studying and measuring various behaviours in an ethical manner.*

#### *Animal Biology and Introduction to Laboratory Science*

*Science is an integral part of the programme. This module is designed to give students an introduction to the diversity of living organisms and to provide basic laboratory skills and experience of experimental methods relating to animal biology. It will identify the different phyla and classes of animals, and link their form to function. Laboratory practicals will allow for development of practical scientific skills.*

#### *Level 5*

##### *Reproduction and Breeding Management*

*Understanding the reproduction of animals as an animal scientist is essential for laboratory diagnostics and to maintain health. This module covers the anatomy and physiology of the male and female reproductive systems, and the management of breeding animals. Manipulation and control of reproduction through veterinary and husbandry techniques will be considered. The management of breeding animals throughout the production cycle will be covered and factors affecting fertility investigated. Diseases of the reproductive tract will also be discussed.*

##### *Business Management*

*You will be required to investigate and report on the activities of the business or enterprise. It aims to familiarise you with key concepts and issues related to business management such as marketing to enable you to successfully promote a business. It is not designed to teach you how to make marketing decisions but to give you a thorough grasp of what marketing decisions there are to be made and what factors affect them. You will be encouraged to develop skills that can be directly applied to a work environment.*

### *Animal Welfare and Legislation*

*This module enables you to investigate the implications of animal welfare over a wide range of species. This is essential for whatever field you choose, to progress to maintain animal wellbeing and work within the constraints of the law. You will explore the physiological basis for the effects of poor welfare and the reasons why legislation to prevent animal suffering is necessary. Existing legislation is reviewed and current issues in animal welfare are examined.*

### *Research Design and Statistical Analysis*

*This module builds on prior learning at level 4 and provides you with an understanding of experimental design and statistical approaches from conception to completion of a research project or dissertation. In addition, an ability to analyse research will build a constructively critical view of scientific papers. This module will also enable you to select appropriate statistical tests, statistically analyse and present data using a statistical computer software package.*

### *Behaviour and Management of Production Species*

*Those students wishing to progress into animal production and related industries will benefit from an understanding of the origin of domestic species, their natural behaviours and how these are influenced by housing, husbandry and handling. Such knowledge underpins the principles and practice of animal welfare science and the management of such species.*

### *Cellular Processes and Biochemistry*

*This module studies the metabolic processes that are essential to life, and provides a detailed understanding of cellular biochemistry and metabolism. The essential topics of cellular compartmentalisation and energy utilisation within cells are reviewed. Theoretical and practical investigation into the role of enzymes and the mechanisms of enzyme action will be undertaken. A comprehensive knowledge of the underlying metabolic processes is important if students are to understand the intricacies of cellular balance, function and the response of the organism to disease at a cellular level.*

## Level 6

### *Animal Production Systems*

*The purpose of this module is to develop an understanding of a range of animal production systems considering the impact of each system on management, health and welfare of the animal along with consideration of the end products. This is highly relevant for those working within the production field to ensure the maintenance of both health and behaviour. The structure of the animal industries is examined including different breeding, rearing and marketing systems. The*

*importance of quality assurance and traceability will be discussed along with food health and safety*

#### *Laboratory and Veterinary Diagnostic Techniques*

*This module covers the laboratory techniques employed in Animal Science. It will give information and practical experience of analytical methods commonly used in the laboratories to assess health and disease in animals. This module also covers veterinary diagnostic and therapeutic techniques, together with a variety of complementary therapies. Investigate diagnostic and therapeutic methods that are used by veterinary surgeons to assess and treat health and disease in animals. Animal research in the UK and abroad will be investigated - students will be made aware of the organisations involved and current research programmes.*

#### *Disease Process, Immunology and Healing*

*This module will investigate the nature of the disease process and examine the relationship between the host and the infective agent, an area essential to the diagnostics of animal ill health. This module will concentrate on the transmission of different diseases and the importance of methods of control and prevention. In order to underpin this knowledge this module will ensure that the student has a thorough understanding of the animal's natural immune system and an appreciation of how this can be manipulated by artificial means to prevent infection.*

#### *Molecular Biology*

*This module develops the concepts of molecular biology and covers population genetics and speciation, developmental genetics, medical genetics and genetic manipulation of genomes. An applied approach is adopted where relevant using scientific practicals to support theoretical knowledge.*

#### *Dissertation*

*You will study a topic in a specified area of research interest and which reflects the interdisciplinary nature of your degree programme in greater depth. The dissertation allows you to further develop and apply knowledge gained throughout the programme but within your own specialist interests. The processes involved with planning and carrying out the dissertation will develop employability skills including time planning, project development, critical thinking, problem solving and communication skills. Furthermore, the dissertation further develops academic and research skills which you can apply within postgraduate studies or industry.*

### **3.3 Work Based Learning**

*There is no formal work-based learning required by this programme.*

## 4. Delivery

### 4.1 Teaching and Learning Approach

	Contact Time	Independent Study Time
Approximate hours per week:	16	25-30
Delivery includes:	Lectures, seminars, practicals and tutorials.	Reading around the subject, preparing for tutorials and seminars, preparing for and completing module assessments.

You can expect:

- Experienced, supportive and motivated staff with both academic and industrial experience.
- Access to an Online Virtual Learning Environment, called iLearn which is used to enhance and facilitate teaching and independent learning on all programmes.
- Guest lectures, demonstrations from a range of visiting speakers and offsite trips.

### 4.2 Learning Resource Centre

Students will be required to undertake reading, research and investigations outside formal sessions, in order to gain a deeper understanding of the subjects. The Learning Resource Centre (LRC) at our Showground campus is a hub of physical and online resources. With over 32,000 items available to loan, the LRC provides access to over one thousand journal titles from a range of databases, specialist collection journals and hundreds of eBooks. Laptops and PCs are available to borrow or pre-book, with free wifi across both of our campuses. Need a hand? Our friendly and knowledgeable staff are available to help.

The LRC opening hours are:

Monday: 8.30AM – 5.00PM  
Tuesday: 8.30AM – 5.00PM  
Wednesday: 8.30AM – 7.00PM  
Thursday: 8.30AM – 7.00PM  
Friday: 8.30 – 5.00PM

*Saturday: 9.00AM – 2.30PM*

*Opening times may vary at the beginning/end of terms and during holidays. Opening hours will be updated on the LRC iLearn page. Electronic resources are available 24 hours a day, 365 days a year.*

#### **4.3 Assessment and Feedback**

*The programme will incorporate a variety of assessment methods across each academic year. The mix of assessments will seek to challenge and evaluate your knowledge, understanding and skills. Assessments for this programme may include written assignments, seminars, poster presentations, training practical, practical reports and demonstrations. There are no formal examinations.*

*Tutors provide support for assessments in class. There will also be opportunity for formative assessment and feedback during the delivery of each module to monitor learning, and to support and prepare you for the summative assessments which make up the module. Feedback on your summative assessments will be given which will allow you to guide efforts and activities in subsequent modules.*

#### **4.4 Timetables**

*You can expect to receive your timetables during induction week.*

#### **4.5 Extra-Curricular Work Experience**

*Relevant extra-curricular activity and/or work experience is encouraged of all students in order to enhance learning.*

## **5. Facilities**

*Nestled in the Lincolnshire countryside, just outside of Lincoln, Riseholme College encompasses the Riseholme Park campus and Showground campus, just two miles away from each other.*

*We are a specialist land-based College that delivers industry-focused, broad-ranging, higher-level qualifications.*

*We have our own dedicated Animal Unit with indoor and outdoor spaces housing a huge range of species including hoof stock, invertebrates, tropical fish, reptiles and rodents, meaning you get the best hands on learning experience.*

*In addition to our outstanding Animal Unit housing a range of companion animals, students have access to an extensive range of farm stock which includes the*

*'roundhouse' to house Lincolnshire Red Cattle, a bull pen and extensive Equine facilities.*

*We have three domestic and exotic small mammal handling rooms housing a large range of different rodents, rabbits and guinea pigs.*

*The exotic room houses a range of reptiles, amphibians, invertebrates and both tropical and cold-water fish. This helps students develop a diverse range of skills necessary for the awareness, respect and detailed knowledge of herpetology. In addition, the outdoor paddocks house a range of hoof stock.*

*Overall the animal care facilities will provide an ideal backdrop to enable the tutors to emphasise the industrial, managerial and specialised aspects of this programme, as well as provide excellent opportunities for students to learn new skills and become competent in a whole range of animal care areas.*

*Our Showground Campus includes classrooms, science labs, an animal management facility, agriculture and engineering workshops, a learning resource centre, refectory and student services office. We have a Sport and Health Science Centre, complete with gym, multi-use sports hall and 3G flood-lit pitch, and an Agri-Tech, Health and Nutrition Centre.*

*If you need advice on finance and bursaries, information about travel or how we can support your mental health, Student Services is your one-stop-shop.*

*In addition, Riseholme's status as a centre of excellence for high level skills training as part of the government's multi-million-pound Institutes of Technology (IoT) initiative is generating further investment in facilities and resources.*

*Such facilities give us the platform to deliver an unrivalled range of hands-on, practical courses which give our students the skills and knowledge they need to succeed*

## **6. Student Skills and Support**

*Studying at degree level requires key academic skills such as critical thinking, analysis and problem-solving. You will need to learn how to navigate the Learning Resource Centre, develop your IT skills and refine your study skills such as note-taking, revision, independent study and research, and personal skills such as time-management, motivation and self-reflection. You will be embarking on a journey not only to a qualification, but to enhancing your future career prospects. Throughout your programme you will be supported in building these skills within your taught sessions and via online resources, induction sessions, academic*

development seminars, employability week, the Careers Service, the HE Study Skills Team and the Life Coaches Team.

The HE Study Skills Team provides:

- *Informal study skills support for all HE students.*
- *Specialist support for those with a diagnosed specific learning difficulty e.g. dyslexia. This support can be booked on a 1:1 basis, via drop-in or remotely (online).*
- *A range of resources such as PDF links to a variety of study skills topics, for example, referencing.*
- *Support around Successful Online Study, as well as a monthly newsletter, with hints and tips to help you achieve.*
- *A Study Skills course is available to all new HE students, easing the transition from level 3 to provide you with the skills required for HE study.*
- *Equipment such as overlays for visual stress (Meares-Irlen syndrome), Dictaphones and TextHelp 'Read and Write Gold', available to all students on campus.*
- *Information on the application process for Disabled Students Allowance (DSA).*

*If you have any questions you would like to ask the team prior to application please contact them on [HEStudyskills@bishopburton.ac.uk](mailto:HEStudyskills@bishopburton.ac.uk).*

*The Life Coaches Team can help you discover the best you. They can provide support across a wide range of life skills including:*

- *Emotional and behavioural: helping you to understand and overcome personal barriers so you can achieve your full potential.*
- *Mentoring and coaching: individual support programmes, tailored to specific needs.*
- *Social engagement and interpersonal: career coaching to help develop confident, professional and industry ready individuals, who are armed with the interpersonal skills to engage in the professional world.*
- *Health, wellbeing and resilience: focus on all aspects of physical and mental health and wellbeing to develop resilience and life skills and life balance.*

## **7. Fees, Equipment and Additional Costs**

- *For up to date information on tuition fees and financial support please visit: <https://www.riseholme.ac.uk/degree/finance>*

- You will need to buy a kennel coat or overalls in blue and a white lab coat, which are available from our online shop. Steel toe-capped footwear is also required. We anticipate this will cost approximately £100.
- An SPSS licence may be beneficial and can be purchased from our online shop.
- There may also be additional costs for educational visits/trips and enrichment activities.
- A suitable electronic device e.g. a laptop or tablet, with internet connectivity is required for accessing online learning.
- On successful completion of the programme, you have the opportunity to graduate at a ceremony wearing formal dress. The hire of the formal dress is an additional cost.

## 8. Graduate Opportunities and Progression

### 8.1 Graduate Opportunities

Students graduating from this programme can go into careers such as welfare inspector (e.g. DEFRA, RSPCA), laboratory animal technician, research, welfare scientist, environmental enrichment co-ordinator, agriculture consultant, laboratory scientist, animal rescue & rehabilitation, reproduction technologist, management positions and animal welfare societies.

### 8.2 Progression

The programme is also designed to enable you to progress to postgraduate study such as the MSc Applied Animal Behaviour and Training or MSc Animal Behaviour and Welfare, which are available through blended learning at the University Centre Bishop Burton. You can find further details about these programmes on the Bishop Burton website: <https://www.bishopburton.ac.uk/subjects/animal-sciences?level=university>

## 9. Contact Us

If you have any further questions please do not hesitate to contact the Recruitment Team.

Telephone	01522 304600
Email	<a href="mailto:enquiries@riseholme.ac.uk">enquiries@riseholme.ac.uk</a>

<i>Address</i>	<i>Showground Campus Horncastle Lane, North Carlton, LN1 2ZR</i>
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*The information in this guide is correct at time of publication. Any amendments to the content of the programme and modules will be made formally through a modification process with the awarding body. Changes will usually only be made to improve the existing provision for example in response to changing industry requirements. Any changes will be communicated to applicants/students as soon as they have been formally approved.*