

Intercalated Year Course Outline: Bioveterinary Sciences

1. Awarding institution	The Royal Veterinary College
2. Teaching institution	The Royal Veterinary College (University of London)
3. Programme accredited by	N/A
4. Final award	Bachelor of Science
5. Programme Title	Bioveterinary Sciences (Intercalated)
6. Date of First Intake	September 2010
7. Frequency of Intake	Annually in October
8. Duration and Mode(s) of Study	Full time; one year
9. Timing of Examination Board meetings	Annually in June
10. Date of Last Quinquennial Review	n/a
11. Date of Next Quinquennial Review	n/a
12. UCAS code	N/A
13. JACS Code	N/A
14. Relevant QAA subject benchmark group(s)	Biosciences
15. Reference points	
Report of the Committee of Enquiry into Veterinary Research (the Selborne Report)	
16. Educational aims of programme	
• To offer a high quality course, in which students are challenged by, and stimulated to challenge, accepted wisdom in all fields of veterinary science. • To prepare graduates for careers in academic and industrial research, biotechnology and the pharmaceutical industry in general, and in other veterinary and medicine-related industries. • Learn how to design experimental programmes appropriate for evaluating disease; to prepare and evaluate data; and to develop written and oral skills of communication.	
17. Programme outcomes - the programme offers opportunities for students to achieve and demonstrate the following learning outcomes.	

A. Demonstrate knowledge and understanding of:

- Specialised terminology which underpins an individual discipline or subject area.
- Cognate sciences.
- The political, social and economic context of the applications of science.

B. Display the following cognitive (thinking) skills:

- Access information and skills as required by a task
- Make methodical observations on the normal and abnormal functioning of biological systems
- Discriminate between important and relatively unimportant information and observations
- Reflect on information and observations, and solve problems
- Discuss uncertainty in relation to scientific “facts”, and balance different schools of thought.

C. Display the following practical skills including the ability to:

- Design and execute experiments, and to analyse and interpret the resultant data.
- Present conclusions in a variety of formats.

D. The following are considered to be Key skills:

- Communication.
- Teamwork.
- Personal management and career development.
- Effective learning.
- Problem-solving.
- Information technology.
- Numeracy.
- Acting with integrity, being honest, fair and compassionate in all your work.
- Maintaining high ethical principles in relation to business dealings, the use of information and experimentation in man and animals.

Teaching/learning methods

Students develop their knowledge and understanding through attendance at lectures, seminars, workshops, tutorials and through a variety of directed and self-directed learning activities, including practical exercises. They will learn cognitive skills through problem solving, case studies, reflection and role modelling. Practical skills will be learned through demonstration, observation, prosecution, feedback, role modelling and experimentation. Finally, Key Skills will be taught through group work and exercises, structured learning, practical work, reflection, presentations (oral and written) and problem-solving exercises.

Assessment

A. Knowledge and understanding:

Students will be assessed through a combination of formative, in-course and summative examinations, using a range of question formats.

B. Cognitive (thinking) skills:

Cognitive skills will be assessed through appropriately structured written examinations, together with project reports and discussion of poster presentations.

C. Practical skills:

Practical skills will be assessed using structured tasks and laboratory-based projects.

D. Key Skills:

Through key skills assessment criteria, alongside systems and discipline-based assessment criteria, these skills will be assessed in a variety of ways throughout the course.

18. Programme structures and requirements, levels, modules, credits and awards

This course will enable you to develop your interests in cutting-edge scientific research within the context of a diverse range of species. You will develop an appreciation of the fundamental principles of bioveterinary disciplines and an understanding of the complexity of comparative biology.

You will be taught by an extensive range of scientists and clinicians who are knowledgeable from their own experience of animal disease and research. This means we will cover virtually every aspect of animal biology, management and disease that is likely to interest you.

The programme includes one compulsory taught module:

- Cellular and Molecular Pathology

and a choice of two optional modules:

- Infection and Immunity or
- Comparative Models of Disease

Half modules:

- Advanced Concepts in Biobusiness
- Endocrine and Metabolic Syndromes
- Parasitology of Tropical Human and Veterinary Diseases
- Practical Investigative Biology
- Wild Animal Biology
- Concepts in Reproduction
- Development and Disease
- Advanced Skeletal Pathobiology

Full modules:

- Animal Behaviour and Welfare
- Comparative Animal Locomotion

- Epidemiology: the Big Picture
- Infection and Immunity

You will also undertake a personal research project with a choice from over 70 engaging topics from a broad range of specialisation. These will include:

- Locomotion
- Reproduction
- Cell and molecular biology
- Physiology
- Epidemiology
- Infection and immunity

19. Work Placement Requirements

N/A