

PROGRAMME SPECIFICATIONS

Bachelor of Science in Animal Biology, Behaviour, Welfare and Ethics (BSc ABBWE)

Bachelor of Science in Animal Biology, Behaviour, Welfare and Ethics with Placement Year (BSc ABBWE PY)



PROGRAMME SPECIFICATION

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1. Applies to cohort commencing in:	2022			
2. Degree Granting Body	University of London			
3. Awarding institution	The Royal Veterinary College			
4. Teaching institution	The Royal Veterinary College			
5. Programme accredited by	Royal Society of Biology			
6. Name and title	Bachelor of Science in Animal Biology,			
	Behaviour, Welfare and Ethics (BSc ABBWE)			
7. Intermediate and Subsidiary Award(s)	Cert HE, Dip HE			
8. Course Management Team	Course Director: Dr Charlotte Lawson; Pathway Leader: Dr Charlotte Burn; Year 1 Leader: Dr Donald Palmer; Year 2 Leader: Dr Abir Mukherjee; Year 3 Leader: Dr Isabel Orriss			
9. FHEQ Level of Final Award	Level 6 See: <u>https://www.qaa.ac.uk/quality-</u> code/qualifications-and-credit-frameworks			
10. Date of First Intake	2015			
11. Frequency of Intake	Annually in September			
12. Duration and Mode(s) of Study	Three years, full time. A mix of teaching approaches including onsite and digital, synchronous and asynchronous, class and self-paced, expert-led, group and individual.			
13. Registration Period (must be in line with	Full Time Part Time			
the General Regulations for Study and	Minimum Maximu Minimum Maximu			
Award)	m m 2 5 4 6			
	Academi Academi Academi Academi			
	c years c years c years			
14. Timing of Examination Board meetings	Annually in July			
15. Date of Last Periodic Review	2020			
16. Date of Next Periodic Review	2023			
17. Language of study and assessment	English			
18. Entry Requirements	https://www.rvc.ac.uk/study/undergraduate/bsc- animal-behaviour-and-welfare#tab-entry- requirements			
19. UCAS code	D390			
20. HECoS Code	100345			
21. Relevant QAA subject benchmark	Biosciences			
22. Other External Reference Points				
Regulations of the University of London				

Quality Assurance Agency, The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies, 2014

SEEC Level Descriptors for Higher Education, SEEC, 2010

Royal Society of Biology Degree Accreditation Criteria 2019

23. Aims of programme

- To offer a high quality course incorporating extensive research experience, in which students are challenged by, and stimulated to challenge, accepted wisdom in all fields of biological science;
- To prepare graduates for a PhD or careers in academic and commercial research, and in a range of graduate careers that involve the management and welfare of companion, farm, laboratory, working and wild animals.

24. Overall Programme Level Learning Outcomes - the programme offers opportunities for students to achieve and demonstrate the following learning outcomes. Learning outcomes should be specified for all intermediate awards as well as for the terminal award.

E.g. On successful completion of the Bachelor of Science course, students will:	Modules in which each learning outcome will be developed and assessed:
Have a detailed understanding of cell biology, physiology, and genetics	Year 1 modules
Have a detailed understanding of the basis of infectious & non-communicable diseases and the broader applications for disease control	Year 2 modules
• Display practical skills including the ability to design and execute experiments, analyse and interpret the resultant data, and present conclusions in a variety of formats.	Year 2 Research Project
Be able to scientifically measure, explain, and evaluate animal behaviour and welfare	 Y1-3: Projects; Y2: Introduction to Animal Behaviour, Welfare and Ethics; Y3: Science of Animal Welfare; Animal Behaviour and Cognition; Applied Animal Welfare
Be able to debate and analyse the political, social, legal and economic context of animal welfare	Y1-3: Projects; Y2: Introduction to Animal Behaviour, Welfare and Ethics; Y3: Applied Animal Welfare; Animals and Human Society
Have developed the ability to access appropriate information, 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, and discuss uncertainty in relation to scientific "facts", and balance different schools of thought.	Y3 Project

Have an appreciation of health and safety appropriate to laboratory and field work, including completion and understanding of risk assessment and COSHH documents.		Investigati	estigative Projects (all years)		
25. Teaching/learning	methods	Approxim	ate total	number of	hours
Lectures		8-10 hours	s per week	(
Practical / Directed Lea	rning sessions	8-10 hours	s per week	(
Tutorials & self-directed	Learning	5 hours pe	er week		
26. Assessment meth	ods	Percentag	ge of total assessment load		
Coursework		22%			
Written Exams		45%			
Projects		33%			
27. Feedback					
group learning and pra- written) during investiga 28. Programme struct NB: The College will no	ed to seek feedback from lec ctical classes. Frequent oppo ative projects. ures and requirements, lev t deliver any module or part quality or viability. Such offe	ortunities f vels, mod of a progr	or formativ ules, crec amme if c	ve feedback lits and aw ircumstance	ards ards
the course. However, th	ne College will always offer a ses to the student and of eq	alternatives	s that will I		
	Module Title		FHEQ Level	Credits	Compulsory or optional
Year 1, Term 1	Biology of the Cell		4	15	Compulsory
Year 1, Term 1	Inheritance, Genes and E	volution	4	15	Compulsory
Year 1, Term 1	Developmental Biology		4	15	Compulsory
Year 1, Term 2	The Moving Animal		4	15	Compulsory
Year 1, Term 2	Integrated Physiology 1		4	15	Compulsory
Year 1, Term 2	Integrated Physiology 2		4	15	Compulsory
Year 1, Term 3	Problem Definition and Investigation		4	15	Companyate and
Year 1, Term 3	Investigation				Compulsory
·	Animal Behaviour Welfare Ethics based Project	8	4	15	Compulsory
Year 2, Term 1	Animal Behaviour Welfare	* &	4	15 15 15	
	Animal Behaviour Welfare Ethics based Project	2 &			Compulsory
Year 2, Term 1	Animal Behaviour Welfare Ethics based Project Basis of Disease		5	15	Compulsory Compulsory
Year 2, Term 1 Year 2, Term 1	Animal Behaviour Welfare Ethics based Project Basis of Disease Aging and Degeneration		5	15 15	Compulsory Compulsory Compulsory

Year 2, Term 2	Wild Animal Biology	5	15	Optional
Year 2, Term 2	Introduction to Animal Behaviour, Welfare and Ethics	5	15	Compulsory
Year 2, Term 3	Animal behaviour and Welfare Research Project	5	30	Compulsory
Year 3, Term 1	Science of Animal Welfare	6	15	Compulsory, unless all three other Compulsory Y3 modules are taken, in which case an optional 15 credit module maybe substituted
Year 3, Term 1	Animal Behaviour and Cognition	6	15	Compulsory, unless all three other Compulsory Y3 modules are taken, in which case an optional 15 credit module maybe substituted
Year 3, Term 2	Applied Animal Welfare	6	15	Compulsory, unless all three other Compulsory Y3 modules are taken, in which case an optional 15 credit module maybe substituted
Year 3, Term 2	Animals and Human Society	6	15	Compulsory, unless all three other Compulsory Y3 modules are taken, in which case an optional 15 credit module maybe substituted
Year 3	Animal Behaviour, Welfare or Ethics Research Project	6	60	Compulsory
Year 3, pre-Term 1	Practical Investigative Biology	6	15	Optional

Year 3, Term 1	Advanced Concepts in Reproduction	6	15	Optional
Year 3, Term 1	Development & Disease	6	15	Optional
Year 3, Term 1	Applied Molecular Microbiology	6	15	Optional
Year 3, Term 1	Parasitology of Human & Veterinary Tropical Diseases	6	15	Optional
Year 3, Term 1	Endocrine & Metabolic Syndromes	6	15	Optional
Year 3, Term 1	Advanced Skeletal Pathobiology	6	15	Optional
Year 3, Term 1	Omic Approaches to Biology	6	15	Optional
Year 3, Term 2	Advanced Concepts in Biobusiness	6	15	Optional
Year 3, Term 2	Comparative Models of Disease	6	15	Optional
Year 3, Term 2 Epidemiology: the Bigger Picture		6	15	Optional
Year 3, Term 2	Comparative Anatomy	6	15	Optional
Year 3, Terms 1 & 2	Various KCL modules	6	15	Optional
29. Work Placement F	Requirements or Opportunities	Behavio	our, Welfar ent Year o	Animal Biology, e & Ethics with ption is also
30. Student Support		http://ww		uk/study/support-
31. Assessment				

Assessment and Award Regulations <u>https://www.rvc.ac.uk/about/the-rvc/academic-quality-regulations-procedures</u>

Version Number	Amended by	Date
1	Academic Quality Manager	17.06.2020
2	Dr Charlotte Lawson	12.08.2020
3	Sciences Course Support	30.06.2021
	Manager	
4	Course Director & Sciences	25.04.2022
	Course Support Manager	



1. Applies to cohort commencing in: 2022 2. Degree Granting Body University of London 3. Awarding institution The Royal Veterinary College 4. Teaching institution The Royal Veterinary College 5. Programme accredited by Royal Society of Biology 6. Name and title Bachelor of Science in Animal Biology, Behaviour, Welfare and Ethics with Placement Year (BSc ABBWE PY) 7. Intermediate and Subsidiary Award(s) Cert HE, Dip HE 8. Course Management Team Course Director: Dr Charlotte Lawson; Pathway Leader: Dr Charlotte Burn; Year 1 Leader: Dr Donald Palmer; Year 2 Leader: Dr Abir Mukherjee; Year 3 Leader: Dr Claire Russell Year 4 Leader: Dr Isabel Orriss 9. FHEQ Level of Final Award Level 6 See: https://www.gaa.ac.uk/gualitycode/qualifications-frameworks 10. Date of First Intake 2022 Annually in September 11. Frequency of Intake 12. Duration and Mode(s) of Study Four years, full-time, face to face. A mix of teaching approaches including onsite and digital, synchronous and asynchronous, class and self-paced, expert-led, group and individual. 13. Registration Period (must be in line with Full Time Part Time the General Regulations for Study and Minimum Minimum Maximu Maximu Award) m m 2 5 4 6 Academi Academi Academi Academi c years c years c years c years 14. Timing of Examination Board meetings Annually in July (Year 1, 2, 4), Annually in July the following year (Year 3) 15. Date of Last Periodic Review n/a 2023 16. Date of Next Periodic Review 17. Language of study and assessment English **18. Entry Requirements** https://www.rvc.ac.uk/study/undergraduate/bscanimal-behaviour-and-welfare#tab-entryrequirements Progression to the Placement Year Written offer of a Placement from a placement provider. The proposed placement project must address the Learning Outcomes. The

	placement provider must satisfactorily complete an 'RVC Collaborative Partners' form. The student must attend a Placement Health and Safety Induction at the RVC. Travel Risk Assessments must be performed if the placement is abroad. A Placement Supervisor must be named, and their details provided.
19. UCAS code	D391
20. HECoS Code	100345
21. Relevant QAA subject benchmark	Biosciences
22. Other External Reference Points	

Regulations of the University of London

Quality Assurance Agency, The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies, 2014

SEEC Level Descriptors for Higher Education, SEEC, 2010

Royal Society of Biology Degree Accreditation Criteria 2019

ABPI, 2019, Bridging the skills gap in the biopharmaceutical industry: Maintaining the UK's leading position in life sciences.

23. Aims of programme

BSc ABBWE

- To offer a high quality course incorporating extensive research experience, in which students are challenged by, and stimulated to challenge, accepted wisdom in all fields of biological science;
- To prepare graduates for a PhD or careers in academic and commercial research, and in a range of graduate careers that involve the management and welfare of companion, farm, laboratory, working and wild animals.

Placement Year

- To prepare students for the workplace through development of employability skills and understanding of the sector and organisation in which they are placed
- To increase student employability by providing work and research experience with a placement provider
- To provide students with a framework for lifelong learning
- To provide opportunity to develop research skills, including synthesis of information, critical analysis and an appreciation of factors that contribute to uncertainties

24. Overall Programme Level Learning Outcomes - the programme offers opportunities for students to achieve and demonstrate the following learning outcomes. Learning outcomes should be specified for all intermediate awards as well as for the terminal award.

E.g. On successful completion of the Bachelor of Science course, students will:	Modules in which each learning outcome will be developed and assessed:
Have a detailed understanding of cell biology, physiology, and genetics	Year 1 modules
Have a detailed understanding of the basis of infectious & non-communicable diseases and the broader applications for disease control	Year 2 modules

	Display practical skills including the shility	Year 2 Research Project
	Display practical skills including the ability to design and execute experiments, analyse and interpret the resultant data, and present conclusions in a variety of formats.	
•	Be able to scientifically measure, explain, and evaluate animal behaviour and welfare	 Y1-4: Projects; Y2: Introduction to Animal Behaviour, Welfare and Ethics; Y3: Science of Animal Welfare; Animal Behaviour and Cognition; Applied Animal Welfare
•	Be able to debate and analyse the political, social, legal and economic context of animal welfare	Y1-4: Projects; Y2: Introduction to Animal Behaviour, Welfare and Ethics; Y3: Applied Animal Welfare; Animals and Human Society
•	Have developed the ability to access appropriate information, 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, and discuss uncertainty in relation to scientific "facts", and balance different schools of thought.	Year 1, 2, 3 and 4 Research Projects
•	Develop independent and lifelong learning skills to promote their own personal and professional development	Tutorials & Skills Workshops (across all modules)
•	Develop important employability skills including: communication, teamwork, personal management and career planning, effective learning, problem- solving, digital literacy, and numeracy.	Across all modules, with particular emphasis in projects and tutorials
•	Act with integrity, be honest, fair and compassionate in all their work. Maintain high ethical principles in relation to professional dealings, the use of information and experimentation in humans and animals.	Investigative Projects (all years)
•	Have an appreciation of health and safety appropriate to laboratory and field work, including completion and understanding of risk assessment and COSHH documents.	Year 2, 3 and 4 Research Projects
	completion of the placement year, students additionally be able to:	
•	Employ models of reflection to explore and critically evaluate how these influence own learning, personal and professional planning; providing recommendations and action plan to improve	Placement Year 3: Professionalism module
•	Demonstrate experience within the biological sciences that is relevant to their degree	Year 1, 2, 3, and 4 Research Projects Placement Year 3: Both Professionalism and Project modules

in which the studer	preciation of the sector t is working, a broad eld, and their role within					
using scholarly sou	and sustain arguments irces and the accurate iblished techniques of ry within one topic.		t Year 3: B	esearch Pr oth Profess	ojects sionalism and	
	strate an appreciation of inties and limits of knowledge Placement Year 3: Both Professionalism and Project modules					
25. Teaching/learning	25. Teaching/learning methods Approximate total number of hours These figures may differ during the COVID-19 pandemic					
Lectures		8-10 hours	s per week			
Practical / Directed Lea	arning sessions	8-10 hours	s per week			
Tutorials & self-directed		5 hours pe	er week			
Placement Year 3	0	35 hours p	oer week			
26. Assessment meth	ods	•		assessme	nt load	
Coursework		20%				
Written Exams		40%				
Projects	40%					
27. Feedback						
question and answer s feedback to individual s Students are encourag group learning and pra written) during investig 28. Programme struct NB: The College will no changed to threaten its	re feedback on individual of essions, feedback to the y students about exam and ed to seek feedback from ctical classes. Frequent of ative projects. tures and requirements, of deliver any module or part quality or viability. Such of the College will always offer	ear group a ICA perform lecturers an pportunities levels, mod art of a prog offerings cou	bout exam ance (in or d tutors as for formati dules, cre ramme if c ild change	and ICA pene-to-one tu s needed du ve feedback dits and aw ircumstance after a stud	erformance, utorials). uring all small k (oral and vards es have lent has started	
fees and add-on exper	ses to the student and of	equal acade	mic value.	-		
	Module Title		FHEQ Level	Credits	Compulsory or optional	
Year 1, Term 1	Biology of the Cell		4	15	Compulsory	
Year 1, Term 1	Inheritance, Genes and Evolution		4	15	Compulsory	
Year 1, Term 1	Developmental Biology		4	15	Compulsory	
Year 1, Term 2	The Moving Animal		4	15	Compulsory	
Year 1, Term 2	Integrated Physiology 1		4	15	Compulsory	
Year 1, Term 2	Integrated Physiology 2		4	15	Compulsory	
Year 1, Term 3	Problem Definition and Investigation		4	15	Compulsory	

Ethics based ProjectCurveYear 2, Term 1Basis of Disease515CompulsoryYear 2, Term 1Aging and Degeneration515CompulsoryYear 2, Term 1Principles of Infectious Diseases515CompulsoryYear 2, Term 2Control of Infectious Diseases515CompulsoryYear 2, Term 2Principles of Pharmacology515OptionalYear 2, Term 2Wild Animal Biology515OptionalYear 2, Term 2Introduction to Animal Behaviour, Welfare and Ethics515CompulsoryYear 3, sandwich placementABBWE-related Placement Project675CompulsoryYear 4, Term 1Science of Animal Welfare Research Project615Compulsory Unless all three other Compulsory Y3 modules are taken, in which case a optional 15 credit module maybe substitutedYear 4, Term 1Animal Behaviour and Cognition are taken, in which case a optional 15615Compulsory Unless all three other Compulsory Y3 modules are taken, in which case a optional 15Year 4, Term 1Animal Behaviour and Cognition are taken, in which case a optional 15615Compulsory Y3 modules are taken, in which case a optional 15				45	
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Year 4, Term 2 Applied Animal Welfare 6 15 Compulsory, Y3 modules are taken, in which case a optional 15 credit module maybe substituted	Year 4, Term 1	Science of Animal Welfare	6	15	unless all three other Compulsory Y3 modules are taken, in which case an optional 15 credit module maybe
unless all	Year 4, Term 1	Animal Behaviour and Cognition	6	15	unless all three other Compulsory Y3 modules are taken, in which case an optional 15 credit module maybe
optional 15	Year 4, Term 2	Applied Animal Welfare	6	15	unless all three other Compulsory Y3 modules are taken, in which case an optional 15 credit module maybe
Year 4, Term 2 Animals and Human Society 6 15 Compulsory, unless all	Year 4, Term 2	Animals and Human Society	6	15	

			three other Compulsory Y3 modules are taken, in which case an optional 15 credit module maybe substituted
Animal Behaviour, Welfare or Ethics Research Project	6	60	Compulsory
Practical Investigative Biology	6	15	Optional
Advanced Concepts in Reproduction	6	15	Optional
Development & Disease	6	15	Optional
Applied Molecular Microbiology	6	15	Optional
Parasitology of Human & Veterinary Tropical Diseases	6	15	Optional
Endocrine & Metabolic Syndromes	6	15	Optional
Advanced Skeletal Pathobiology	6	15	Optional
Omic Approaches to Biology	6	15	Optional
Advanced Concepts in Biobusiness	6	15	Optional
Comparative Models of Disease	6	15	Optional
Epidemiology: the Bigger Picture	6	15	Optional
Comparative Anatomy	6	15	Optional
Various KCL modules	6	15	Optional
29. Work Placement Requirements or Opportunities Compulsory Placement Level 6		-	
			uk/study/support-
	Ethics Research ProjectPractical Investigative BiologyAdvanced Concepts in ReproductionDevelopment & DiseaseApplied Molecular MicrobiologyParasitology of Human & Veterinary Tropical DiseasesEndocrine & Metabolic SyndromesAdvanced Skeletal PathobiologyOmic Approaches to BiologyAdvanced Concepts in BiobusinessComparative Models of DiseaseEpidemiology: the Bigger PictureComparative AnatomyVarious KCL modules	Ethics Research ProjectPractical Investigative Biology6Advanced Concepts in Reproduction6Development & Disease6Applied Molecular Microbiology6Parasitology of Human & Veterinary Tropical Diseases6Endocrine & Metabolic Syndromes6Advanced Skeletal Pathobiology6Omic Approaches to Biology6Comparative Models of Disease6Epidemiology: the Bigger Picture6Comparative Anatomy6Various KCL modules6Requirements or OpportunitiesComparative ModelsInttp://wComparative	Ethics Research ProjectImage: Comparative Biology615Practical Investigative Biology615Advanced Concepts in Reproduction615Development & Disease615Applied Molecular Microbiology615Parasitology of Human & Veterinary Tropical Diseases615Endocrine & Metabolic Syndromes615Advanced Skeletal Pathobiology615Omic Approaches to Biology615Comparative Models of Disease615Epidemiology: the Bigger Picture615Comparative Anatomy615Various KCL modules615Requirements or OpportunitiesCompulsory Place

31. Assessment Assessment and Award Regulations <u>https://www.rvc.ac.uk/about/the-rvc/academic-quality-regulations-procedures</u>

Version Number	Amended by	Date
1	Academic Quality Manager	17.06.2020
2	Dr Charlotte Lawson	12.08.2020
3	Sciences Course Support	30.06.2021
	Manager	