

1. Applies to cohort commencing in:	2025					
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 (Advanced Accreditation)					
6. Name and title	Master in Science in Applied Biological Research (MSci ABR)  Master in Science in Applied Biological Research with					
	Placement Year (MSci ABR PY)					
7. Intermediate and Subsidiary Award(s)	Cert HE in Applied Biological Research, Dip HE in Applied Biological Research					
8. Course Management Team	Co-Course Directors: Dr Isabel Orriss &					
9. Level of Final Award	Level 7 See Office for Students (OfS) Sector-recognised standards					
10. Date of First Intake	September 2002 for BSc, September 2014 for transfer from BSc Biological Sciences to MSci year 4 September 2015 for MSci Applied Biological Research September 2022 for Placement Year					
11. Frequency of Intake	Annually in September					
12. Duration and Mode(s) of Study	MSci – four years, full time. MSci with Placement Year– five 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	Full Time					
with the General Regulations for Study and Award)	Minimum Maximum 3 Academic years 6 Academic years					
	4 Academic Years with Placement Year Placement Year					
14. Timing of Examination Board meetings	Annually in July and September					
15. Date of Last Periodic Review	2020					
16. Date of Next Periodic Review	2025					
17. Language of study and assessment	English					
18. Entry Requirements	https://www.rvc.ac.uk/study/undergraduate/msci-applied-biological-research#tab-entry-requirements					

Progression to the Placement Year and/or the Msci
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.
Additional progression requirement to Msci Year
To be considered for progression to MSci Year, applicants

# Additional progression requirement to Msci Year To be considered for progression to MSci Year, applicants must have achieved an aggregate Year 2 mark of at least 50%

19. UCAS code	MSci: C103 MSci with Placement Year: C105
20. HECoS Code	100345
21. Relevant QAA subject benchmark	Biosciences

# 22. Other External Reference Points

Regulations of the University of London

Office for Students (OfS) Sector-recognised standards

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

Credit Level Descriptors for Higher Education, SEEC

Royal Society of Biology Degree Accreditation Criteria

# 23. Aims of programme

### **BSc Biological Sciences**:

- To offer a high quality course, in which students are challenged by, and stimulated to challenge, accepted wisdom in all fields of biological and biomedical science.
- To prepare graduates for careers in academic and industrial research, biotechnology and the pharmaceutical industry in general, and in other health and medicine-related industries.
- To offer a high quality preparation for students aspiring to graduate entry to Medicine, Dentistry or Veterinary Medicine.

### 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

## MSci Applied Biological Research Year:

- Gain research experience within biological and biomedical sciences that is relevant to their degree.
- Gain a deep and systematic understanding of current questions, problems and methods employed within the selected specialised research topic.
- Implement principles of project and experimental design and carefully execute, record and clearly disseminate research.
- Use self-reflection to improve levels of knowledge, professionalism, personal skills and research skills.
- Develop a sound appreciation of the research environment in which the student is working and their role within it.

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.

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 an appreciation of pharmacology 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 Project			
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, solve problems, discuss uncertainty in relation to scientific "facts", and balance different schools of thought.	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, problemsolving, digital literacy, numeracy.	Across all modules, with particular emphasis in projects and tutorials
<ul> <li>Act with integrity, be honest, fair and compassionate in all their work.</li> <li>Maintain high ethical principles in relation to professional dealings, the use of information and experimentation in humans and animals.</li> </ul>	Projects
Have an appreciation of health and safety appropriate to laboratory and field work, including completion and understanding of risk assessment and COSHH documents	Projects
On successful completion of the Placement Year, students will 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	Professionalism and Project modules
Demonstrate experience within the biological sciences that is relevant to their degree	Professionalism and Project modules
Demonstrate an appreciation of the sector in which the student is working, a broad knowledge of the field, and their role within it	Professionalism and Project modules
Devise, interrogate and sustain arguments using scholarly sources and the accurate deployment of established techniques of analysis and enquiry within one topic.	Professionalism and Project modules
Demonstrate an appreciation of uncertainties and limits of knowledge	Professionalism and Project modules
On successful completion of the Master in Science course, students will additionally be able to:	

Clearly communicate their project aims, background, results, relevance and own proposals for future research, demonstrating critical analysis and a deep and systematic knowledge and understanding of the literature.	Research Skills module & MSci Year project
Clearly and properly record their research.	Research Skills module & MSci Year project
Demonstrate excellent professional conduct	Project
Identify specific areas for personal and skill development.	Research Skills module & Placement Year
Demonstrate an understanding of professional conduct within the workplace.	MSci Placement Year
Appreciate the placement provider's strategic aims, finances and profitable activities.	MSci Placement Year
Understand the importance of intellectual property and confidentiality in business and research.	MSci Placement Year
An appreciation of the culture of the placement provider and of the relevance of the project to the organisation.	MSci Placement Year
Demonstrate extensive research     experience within biological sciences that     is relevant to their degree.	Projects
Demonstrate a deep and systematic understanding of current questions, problems and methods employed within the selected specialised research topic	Research Skills module Project
Implement principles of project and experimental design and carefully execute, record and clearly disseminate research.	Year 5 Research Skills module Projects
Use self-reflection to improve levels of knowledge, professionalism, personal skills and research skills.	Tutorials & Skills Workshops (across all modules) Projects Professionalism module Research Skills module

 Develop a sound appreciation of the research environment in which the student is working and their role within it. Professionalism and Project modules Research Skills module Project

25. Teaching/learning methods	Approximate total number of hours
Lectures	8 -10 hours per week
Practical / Directed Learning sessions	8 -10 hours per week
Tutorials & self-directed Learning	5 hours per week
Placement Year	35 hours per week
MSci Year	35 hours per week
26. Assessment methods	Percentage of total assessment load
Coursework	Placement Year: 20% MSci Year: 25%
Written Exams	Placement Year: 30% MSci Year: 31%
Projects	Placement Year: 50% MSci Year: 44%

# 27. Feedback

In each module in each year, there are a number of formative feedback opportunities. These include written formative feedback on individual coursework, online quizzes with answers, group question and answer sessions, feedback to the year group about exam and ICA performance, feedback to individual students about exam and ICA performance (in one-to-one tutorials). Students are encouraged to seek feedback from lecturers and tutors as needed during all small group learning and practical classes. Frequent opportunities for formative feedback (oral and written) during projects.

28. Work Placement Requirements or Opportunities	Yes, if doing the Placement Year at Level 6
29. Student Support	http://www.rvc.ac.uk/study/support-for- students and https://www.kcl.ac.uk/students
30. Assessment	

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

31. Programme structures and requirements, levels, modules, credits and awards
NB: Students planning more than a Stage ahead should be aware that the College will not deliver any module or part of a programme if circumstances have changed to threaten its quality or viability. Such offerings could change after a student has started the course. However, the College will always offer alternatives that will be of equal cost in both fees and add-on expenses to the student and of equal academic value.

Stage 1 (Year One) Credit and Awards	Details		
Total Credit to be studied at this stage	120 at Level 4		
There are no optional modules at this stage			
Award available for completion of the Stage	Certificate in Higher Education Biological Sciences		

# Stage 1 (Year One) Compulsory Studies

Year	Ter m	Delivery Institution	Module Code	Module Title	Level	Credit Value	Status for Award	Prerequisites
1	1	RVC		Biology of the Cell	4	15	Compulsory	None
1	1	RVC		Inheritance, Genes and Evolution	4	15	Compulsory	None
1	1	RVC		Developmental Biology	4	15	Compulsory	None
1	2	RVC		The Moving Animal	4	15	Compulsory	None
1	2	RVC		Integrated Physiology	4	15	Compulsory	None
1	2	RVC		Integrated Physiology 2	4	15	Compulsory	None
1	3	RVC		Problem Definition and Investigation	4	15	Compulsory	None
1	3	RVC		Project	4	15	Compulsory	None
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Stage 2 (Year Two) Credit and Awards	Details
Total Credit to be studied at this stage	120 at Level 5

Optional modules required in addition to compulsory modules				15 credits					
Award available for completion of the Stage				Diploma in Higher I	Education B	iological Scie	nces		
Stage 2	2 Compuls	sory Studies							
Year	Term	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites
2	1	RVC		Basis of Disease		5	15	Compulsory	Stage 1
2	1	RVC		Ageing and Degeneration	on	5	15	Compulsory	Stage 1
2	1	RVC		Principles of Infectious Diseases		5	15	Compulsory	Stage 1
2	2	RVC		Control of Infectious Diseases		5	15	Compulsory	Stage 1
2	2	RVC		Principles of Pharmacology		5	15	Compulsory	Stage 1
2	3	RVC		Biological Sciences Project		5	30	Compulsory	Stage 1
Stage 2	2 Optional	Studies		<u> </u>		<u> </u>			
Year	Term	Delivery Institution	Module Code	Module Title	Level	Credit Value	Status for Award	Prerequisites	
2	2	RVC		Applied Pharmacology		5	15	Optional	Stage 1
2	2	RVC		Imaging of Disease		5	15	Optional	Stage 1
2	2	RVC		Introduction to Animal Behaviour, Welfare & Ethics		5	15	Optional	Stage 1
2	2	RVC		Introduction to One Health		5	15	Optional	Stage 1
Stage 3	3 PY (Year	Three Placemen	t Year only) Credit a	nd Awards	Details	<u> </u>			II.
		studied at this sta			120 at Level 6				

There a	re no optio	onal modules at th	is stage						
Award available for completion of the Stage				Diploma in Higher Education Biological Sciences with Placement Year					
Year	Term	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites
PY	All	RVC		Biological Sciences related Placement Project		6	75	Compulsory	Stage 2
PY	All	RVC		Professionalism		6	45	Compulsory	Stage 2
Stage 3 Stage 4	(Year Th	ree without a Pla Four with a Plac	cement Year) Credit ement Year) Credit a	and Awards and Awards	Details			<u> </u>	
Total Cr	edit to be	studied at this sta	ge		120 at Level 6				
Optiona	l modules	required in addition	on to compulsory mod	ules	60 credits				
Award available for completion of the Stage					BSc (Hons) Biological Sciences with or without Placement Year (PY)				
			cement Year) Compu		· ·				
Year	Term	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites
3 4 (PY)		RVC		Designated Biological Sciences Project		6	60	Compulsory	Stage 2
			cement Year) Option ent Year) Optional S						-
Year	Term	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites
3, 4 PY	2	RVC		Advanced Concepts in Biobusiness		6	15	Optional	
3, 4 PY	1	RVC		Advanced Concepts in Reproduction		6	15	Optional	
3, 4 PY	1	RVC		Advanced Concepts in Skeletal Pathobiology		6	15	Optional	
3, 4 PY	1	RVC		Animal Behaviour and Cognition		6	15	Optional	

3, 4 PY	2	RVC	Animals and Human Society	6	15	Optional	
3, 4 PY	1	RVC	Applications of Pathology	6	30	Optional	Principles of Pathology
3, 4 PY	2	RVC	Applied Animal Welfare	6	15	Optional	
3, 4 PY	1	RVC	Applied Molecular Microbiology	6	15	Optional	
3, 4 PY	2	RVC	Applied Wildlife Health Sciences	6	15	Optional	
3, 4 PY	1	RVC	Comparative Animal Locomotion	6	30	Optional	
3, 4 PY	2	RVC	Comparative Anatomy	6	15	Optional	
3, 4 PY	2	RVC	Comparative Models of Disease	6	15	Optional	
3, 4 PY	1	RVC	Development and Disease	6	15	Optional	
3, 4 PY	2	RVC	Ecology: Individuals, Populations & Communities	6	15	Optional	
3, 4 PY	1	RVC	Endocrine and Metabolic Syndromes	6	15	Optional	
3, 4 PY	2	RVC	Epidemiology: the Bigger Picture	6	15	Optional	
3, 4 PY	2	RVC	Infection and Immunity	6	30	Optional	
3, 4 PY	1	RVC	Omic Approaches to Biology	6	15	Optional	
3, 4 PY	1	RVC	Parasitology of Human and Veterinary tropical Diseases	6	15	Optional	
3, 4 PY	Pre-1	RVC	Practical Investigative Biology	6	15	Optional	
3, 4 PY	1	RVC	Principles of Pathology	6	30	Optional	Applications of Pathology
3, 4 PY	1	RVC	Science of Animal Welfare	6	15	Optional	

3, 4 PY	1&2	King's College London		Various KCL modules		6	15 or 3	0 Optional	
Stage 4 (Year Four without a Placement Year) Credit and Awards Stage 5 (Year Five with a Placement Year) Credit and Awards					Details				
Total Credit to be studied at this stage					120 at Level 7				
There are no optional modules									
Award available for completion of the Stage					MSci Applied Biological Sciences Research with or without a Placement Year (PY)				
Stage 4 (Year Four without a Placement Year) Compulsory Studies Stage 5 (Year Five with a Placement Year) Compulsory Studies									
Year	Term	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites
4 MSci only, 5 PY	1	RVC		Research Skills		7	15	Compulsory	
4 MSci only, 5 PY	All	RVC		Applied Biological Sciences Research Project		7	105	Compulsory	60 credit Stage 4 project

KCL = King's College London PY = Placement Year RVC = Royal Veterinary College

Version Number	Amended by	Date	
1.0	Academic Quality Manager	06.02.2020	
1.1	Academic Quality Manager	17.06.2020	
1.2	Academic Quality Manager	30.06.2020	
1.3	Course Director	02.02.2021	
1.4	Course Director & Sciences	25.04.2022	
	Course Support Manager		
1.5	Academic Quality Manager	06.01.2023	
1.6	BSc/MSci Course Director	18.10.2023	

1.7	BSc/MSci Course Director	20.12.2023
1.8	BSc MSci Course Director &	15.02.2024
	Sciences Course Support	
	Manager	