

## FACULTY OF VETERINARY SCIENCE

### REGULATIONS FOR THE UNDERGRADUATE PROGRAMMES

#### BACHELOR OF VETERINARY SCIENCE DEGREE BACHELOR OF SCIENCE HONOURS DEGREES

#### BACHELOR OF VETERINARY SCIENCE DEGREE (BVSC)

##### 1. INTRODUCTION

- 1.1 These Regulations apply only to students who are registered for the Bachelor of Veterinary Science Degree at the University of Zimbabwe and should be read in conjunction with the General Academic Regulations for Undergraduate Degrees, hereinafter referred to as The General Regulations.
- 1.2 The Bachelor of Veterinary Science Degree will be awarded to candidates who have successfully completed approved courses and examinations in accordance with the regulations set out below.
- 1.3 The Bachelor of Veterinary Science degree programme will be of at least 5 years duration on a full-time study basis.
- 1.4 In addition to the required courses for specific degree programmes, all Part I students will be required to register for and to attend the Communication Skills Course in the 1st Semester. The Communication Skills Course for Veterinary Science (CSVE101) examination is compulsory.

##### 2. ENTRY QUALIFICATIONS

- 2.1 To qualify for entry a prospective student must satisfy the Entry Requirements for undergraduate degrees as prescribed in the General Regulations.
- 2.2 For normal entry, a student must satisfy the general requirements of Scheme B normally with passes in Chemistry, Biology, Mathematics and Physics. Chemistry and Biology are compulsory plus one of the other subjects must have been passed at Advanced Level.
- 2.3 For special entry a student must satisfy one of the criteria which is prescribed in the General Regulations and is approved by the Faculty Board.

##### 3. DATE OF EXAMINATIONS

Formal examinations will take place in each part of the programme. Part I, which comprises three terms, will have formal (first professional) examination in mid-year 2. Part II, which comprises three terms, will have formal (second professional) examination at end of year 3. Part III will have formal (third professional) examination at the end of year 4. Part IV will have formal (final professional) examination at end of year 5. Examination will take place at end of the term in which each of the following courses is presented: Behaviour and Handling of Animals (year 1, term 2); Veterinary Jurisprudence and Regulatory Control of Veterinary Medicinal Products (each component of combined course will be examined separately (year 5, term 1); Applied Business Management (year5, term 1). Communication Skills for Veterinary Science, which is presented in Part I of the BVSc degree programme will be examined by continuous assessment and a formal examination (2 hours) to proceed the first professional examination (year 2, term 1).

##### 4. ADMISSION TO EXAMINATIONS

To be admitted to any of the examinations for the above degree a candidate must:-

- 4.1 be registered as a student of the University of Zimbabwe in accordance with the General Regulations;
- 4.2 have completed approved courses at the University to the satisfaction of the Chairman (men) of Department(s) concerned;
- 4.3 Additionally, to be admitted to the examination in the fifth year of the programme a candidate must:-
  - 4.3.1 during the Parts III and IV of the programme have completed to the satisfaction of the Dean of the Faculty a minimum of 13 weeks of certified extra-mural/vocational work attached to an approved veterinary surgeon or institution;
  - 4.3.2 have submitted records of diseases/clinical cases seen during the aforesaid periods and produce casebooks attested to by the extra-mural teacher(s)/ supervisor. If also required, these documents will be presented to the Board of Examiners.

##### 5. SCHEME OF EXAMINATION

- 5.1 The programme is divided into four parts. The courses within each part are defined in Section 9 of these Regulations. The components of examination for each course are defined in Section 5.4 of these regulations.
- 5.2 Candidates must pass every course in a Part before proceeding to the subsequent part.
- 5.3 Where formal examination includes written papers and/or an oral examination, a candidate shall be deemed to have passed a course when he/she has scored not less than 40% in the written and practical components.
- 5.3.1 where deemed necessary by the examiners, a candidate will present case records drafted during his/her extra-mural training described in section 4.3 above.
- 5.4 Examination Papers/Components

**5.4.1 Part I**

<i>Course</i>	<i>Components of Examination</i>	<i>Computer Code</i>	<i>Duration</i>
Veterinary Anatomy (AT1V) Continuous Assessment Viva	Anatomy Theory I	ATV101	3 hrs
	Anatomy Theory II	ATV102	3 hrs
	Practical	ATV180	2 hrs
		ATV150 C	
		ATV190	1/4hr

<i>Course</i>	<i>Components of Examination</i>	<i>Computer Code</i>	<i>Duration</i>
Veterinary Physiology (PY1V) Continuous Assessment Viva	Physiology Theory I	PYV101	3 hrs
	Physiology Theory II	PYV102	3 hrs
	Practical	PYV180	1 hr
		PYV150 C	
		PYV190	1/4 hr
Veterinary Biochemistry (BC1V) Continuous Assessment Viva	Biochemistry Theory I	BCV101	3 hrs
	Biochemistry Theory II	BCV102	2 hrs
	Practical	BCV180	2 hrs
		BCV150 C	
		BCV190	10min
Animal Nutrition (NT1V) Viva	Animal Nutrition Theory	NTV101	3 hrs
	Continuous Assessment	NTV150 C	
		NTV190	10min
Communication Skills (CSVE101)	Communication Skills	CSVE101	1 hr

**5.4.2 Part II**

Animal Husbandry (AHV2) Viva	Theory I	<b>AHV201</b>	3 hrs
	Theory II	<b>AHV202</b>	3 hrs
	Continuous Assessment	<b>AHV250</b> —	
		<b>AHV290</b>	10min
Veterinary Parasitology (VP2) Viva/Oral	Parasitology Theory	VP201	3 hrs
	Continuous Assessment	VP250 C	
	Practical	VP280	2 hrs
		VP290	10min
Veterinary Pathology (PG2V) Continuous Assessment 000Viva Viva/Oral	Pathology Theory I	PG2V01	3 hrs
	Pathology Theory II	PG2V02	3 hrs
	Practical	PG2V80	2hrs
		PG2V50 C	
		PG2V90	10min

Veterinary Pharmacology Toxicology (CP2V)	Pharmacology/Toxicology Theory Pharmacology/Toxicology Practical Continuous Assessment Viva	CP2V01 CP2V80 CP2V50 CP2V90	3 hrs 2 hrs C 10min
Veterinary Microbiology (VM2V)	Veterinary Microbiology Theory 1 Veterinary Microbiology Theory 11 Continuous Assessment Viva	VM2V01 VM2V02 VM2V50 VM2V90	3hrs 3hrs 10min

#### 5.4.3. Part III

<i>Course</i>	<i>Components of Examination</i>	<i>Computer Code</i>	<i>Duration</i>
Clinical Medicine, Practical Anaesthesiology & Radiology (CM3V)	Theory Continuous Assessment Viva	CM3V01 CM3V80 CM3V50 CM3V90	3 hrs 1 hr 1/4hr
Epidemiology Herd Health/ Wildlife & Exotic Medicine (EH3V)	Theory Practical Continuous Assessment Viva	EH3V01 EH3V80 EH3V50 EH3V90	3 hrs 1 hr 1/4hr
Equine Medicine & Surgery (EM3V) Viva	Theory Practical Continuous Assessment EM3V90 1/4hr	EM3V01 EM3V80 EM3V50	3 hrs 1 hr
Porcine & Poultry Medicine (PP3V)	Theory Practical Continuous Assessment Viva	PP3V01 PP3V80 PP3V50 PP3V90	3 hrs 1 hr 1/4hr
Public Health & Clinical Pathology (PH3V) Viva	Theory Practical Continuous Assessment	PH3V01 PH3V80 PH3V50 PH3V90	3 hrs 1 hr 1/4hr
Ruminant Medicine & Surgery (RM3V) Viva	Theory Practical Continuous Assessment	RM3V01 RM3V80 RM3V50 RM3V90	3 hrs 1 hr 1/4hr
Small Animal Medicine & Surgery (SM3V)	Theory Practical Continuous Assessment Viva	SM3V01 SM3V80 SM3V50 SM3V90 1/4hr	3 hrs 1 hr
Theriogenology (TG3V) Viva	Theory Continuous Assessment	TG3V01 TG3V50 TG3V90	3 hrs 1/4hr

#### 5.4.4 Part IV

<i>Course</i>	<i>Components of Examination</i>	<i>Computer Code</i>	<i>Duration</i>
Clinical Veterinary Studies (CVS4V)	Small Animal Medicine Continuous Assessment Oral/Practical	CVS4V01 CVS4V50 CVS4V80	1 hr
Large Animal medicine Continuous Assessment Oral/Practical		CVS4V02 CVS4V50 CVS4V80	1 hr
Surgery/Anaesth./Radiology Continuous Assessment Oral/Practical		CVS4V04 CVS4V50 CVS4V80	1 hr
Herd Health & Reproduction Continuous Assessment Oral/Practical		CVS4V05 CVS4V50 C CVS4V80	1 hr
Laboratory Diagn./Pathology Continuous Assessment Oral/Practical		CVS4V06 CVS4V50 C CVS4V80	1 hr
Public Health Continuous Assessment Oral/Practical		CVS4V07 CVS4V50 C CVS4V80	1 hr
Research Project		VTCL560	
Communication Skills (CSVE301)	Comm. Skills	CSVE301	

#### 5.5 Repeat Students

A candidate who has failed a Part and is allowed to repeat it shall normally not be exempted from re-attendance or re-examination in any course in that Part unless he/she has gained a grade of 2.1 in the course or courses concerned.

### 6. SUPPLEMENTARY EXAMINATIONS

Subject to the provisions concerning supplementary examinations in the General Regulations.

6.1 A student who fails to obtain a pass mark in aggregate in any course may be permitted a supplementary examination in all components of the formal examination.

6.2 A student who has failed to satisfy the examiners in the written and/or practical component(s) of a formal examination but who has obtained a pass mark in aggregate of the course shall be required to sit all components of the course. The examination shall be marked as Pass or fail; the mark awarded for the component shall be 50% and the official transcript shall record that the course was passed or failed as a supplementary examination.

### 7. NOTIFICATION OF RESULTS

The results of each examination shall be published in accordance with the provisions of the General Regulations.

### 8. AWARD OF DIPLOMA

A diploma for the Bachelor of Veterinary Science Degree (BVSc) under the Seal of the University of Zimbabwe will be delivered to all candidates who have successfully completed the requirements for the award of the degree.

### 9. CURRICULUM AND FORMAL CONTACT HOURS

Course	Lecture/ Tutorial (1 hr)	Practical (3 hr)
<b>Yr 1, Term 1</b>		
Vet. Anatomy	103	47
Vet. Physiology	60	7
Vet. Biochemistry	57	7
Communication skills	18	-
Total contact time	238	61
<b>Yr 1, Term 2</b>		
Vet. Anatomy	73	23
Vet. Physiology	110	11
Vet. Biochemistry	35	4
Behaviour & handling of animals	18	14
Communication skills	16	-
Total contact time	252	52
<b>Examination: Behaviour &amp; handling of animals (Practical cum Oral)</b>		
Veterinary Anatomy	39	15
Veterinary Physiology	44	5
Veterinary Biochemistry	40	6
Animal Nutrition	50	18
Communication skills	14	-
Total contact time	187	44
<b>Examination</b>	<b>Communication skills (Continuous assessment plus 2-hr paper)</b>	

<b>FIRST PROFESSIONAL EXAMINATIONS</b>				
Course	Mark allocation			
	Continuous Assessment	Theory	Practical	Oral
Veterinary Anatomy	30	40 (2 papers)	20	10
Veterinary Physiology	30	50 (2 papers)	10	10
Veterinary Biochemistry	30	40 (2 papers)	20	10
Animal Nutrition	20	50 (2 Papers)	15	15

## Part II

COURSE	Lecture/ Tutorial (1 hr)	Practical (3 hr)
<b>Yr 2, Term 2</b>		
Animal Husbandry (Genetics)	56	14
Animal Husbandry (Biometric sand Computer Applications)	56	6
Principles of Veterinary Microbiology, Immunology and Parasitology	70	14
Veterinary Pathology	70	14
Veterinary Pharmacology and Toxicology	28	8
Total contact hours	280	56
<b>Yr 3, Term 1</b>		
Veterinary Microbiology and Immunology	84	16
Veterinary Parasitology	56	14
Veterinary Pathology	56	14

Veterinary Pharmacology and Toxicology	42	4
Animal Husbandry (Production and Management)	42	8
Total contact hours	280	56
<b>Yr 3, Term 2</b>		
Veterinary Microbiology and Immunology	38	10
Veterinary Parasitology	33	9
Veterinary Pathology	34	11
Veterinary Pharmacology and Toxicology	30	3
Animal Husbandry (Production and Management)	40	6
Epidemiology, Herd Health and Production Management, Diseases of Wildlife	25	Nil
General Surgery, Anaesthesia, Radiology	20	5
Total contact hours	220	44
Continuous assessment	1. Epidemiology, Herd Health and Production Management, Diseases of Wildlife 2. General Surgery, Anaesthesia, Radiology	

<b>SECOND PROFESSIONAL EXAMINATION</b>				
<b>Course</b>	<b>Mark allocation</b>			
	<b>Continuous Assessment</b>	<b>Theory Papers</b>	<b>Practical</b>	<b>Oral</b>
Veterinary Microbiology and Immunology	20	(2)50	20	10
Veterinary Parasitology	20	(1)40	20	20
Veterinary Pathology	20	(2)50	20	10
Veterinary Pharmacology and Toxicology	30	(1)50	10	10
Animal Husbandry	20	(2)50	15	15

### Part III

<b>COURSE</b>	<b>Lecture/ Tutorial (1 hr)</b>	<b>Practical (3 hr)</b>
<b>Year 4, Term 1</b>		
General Surgery, Anaesthesia, Radiology	62	1 5
Small Animal Medicine and Surgery	64	8
Equine Medicine and Surgery	18	3
Ruminant Medicine and Surgery	64	6
Porcine and Poultry Medicine	30	3
Epidemiology, Herd Health and Production Management, Diseases of Wildlife	28	4
Public Health and Clinical Pathology	40	1 0
Theriogenology	46	1 5
Total contact hours	352	6 4
<b>Year 4, Term 2</b>		
Small Animal Medicine and Surgery	56	12
Equine Medicine and Surgery	28	7

Ruminant Medicine and Surgery	65	15
Porcine and Poultry Medicine	30	3
Epidemiology, Herd Health and Production Management, Exotic Animal Medicine	70	7
Public Health and Clinical Pathology	42	3
Theriogenology	39	13
Total contact hours	330	60

THIRD PROFESSIONAL EXAMINATIONS				
Course	Mark allocation			
	Continuous Assessment	Theory Paper	Practical	Oral
General Surgery, Anaesthesia, Radiology	30	40	20	10
Small Animal Medicine and Surgery	30	40	15	15
Equine Medicine and Surgery	30	40	20	10
Ruminant Medicine and Surgery	30	40	20	10
Porcine and Poultry Medicine	30	40	20	10
Epidemiology, Herd Health and Production Management, Diseases of Wildlife, Exotic Animal Medicine	30	40	20	10
Public Health and Clinical Pathology	30	40	15	15
Theriogenology	30	60	-	10

#### Part IV

COURSE	Lecture/ Tutorial (1 hr)
<b>Year 5, Term 1</b>	
Veterinary Jurisprudence, Regulatory Control of Veterinary Medicinal Products	16
Applied Business Management	14
Total contact hours	30
Contact hours per week	3
Teaching weeks	10
<b>Examination</b>	<b>Veterinary Jurisprudence, Regulatory Control of Veterinary Medicinal Products</b>
<b>Yr 5, Terms 1 and 2</b>	
Clinical Case Presentations	2 hr per week
Small Animal Medicine Clerkship	6 wk in each on a rotational basis
Large Animal Medicine Clerkship	
Surgery, Anaesthesia and Radiology Clerkship	
Herd Health, Theriogenology and Ambulatory	

Clinic Clerkship	
Laboratory Diagnostics and Pathology Clerkship	
Public Health and Practice Management Clerkship	
Research Project	
Continuous Assessment	During and upon completion of each clerkship rotation
Research Project	Dissertation and Oral Presentation of the project

<b>FOURTH (FINAL) PROFESSIONAL EXAMINATION</b>	
<b>Courses</b>	<b>Examination</b>
Small Animal Medicine	Each is examined in a practical and oral
Small Animal Surgery	
Large Animal Medicine	
Large Animal Surgery	
Theriogenology	
Herd Health and Production Management	
Public Health	
Laboratory Diagnostics and Pathology	
<b>DISTRIBUTION OF MARKS</b>	
Continuous Assessment	30%
Practical and Oral examinations	70%
Research project (separate mark)	100%

#### **SUMMARY OF TEACHING (INCLUDING EXAMINATIONS) WEEKS**

	<b>Yr/Term</b>	<b>CONTACT WEEKS</b>
	Yr 1, Term 1	15
	Yr 1, Term 2	15
	Yr 2, Term 1	15
	Yr 2, Term 2	15
	Yr 3, Term 1	15
	Yr 3, Term 2	15
	Yr 4, Term 1	18
	Yr 4, Term 2	18
	Yr 5, Term 1	21
	Yr 5, Term 2	21

**10. EXTRA-MURAL PRACTICAL WORK**

All students will require to undertake a certified total of three months of extra-mural practical work after the end of the second year. This practical work will be undertaken in private practices, state veterinary services, laboratories, abattoirs, dairies for periods which will be acceptable to the Dean.

**11. SYLLABUSES**

In accordance with the provisions of the General Regulations detailed syllabuses for subjects/ courses will not form part of the General or the Faculty Regulations but shall be prepared by the relevant Departmental Boards and submitted to the Faculty Board for approval. Copies of the detailed syllabuses shall be maintained in the Faculty Office and shall be available, through the Faculty Office, for reference.

**12. AWARD OF HONOURS AND DISTINCTIONS**

A candidate registered in any Part of the BVSc degree programme may be awarded Honours or Distinction in any one course or subject provided that:-

12.1 The candidates examination performance in a course or subject is assessed on the following marking system:-

Marking System

75% = Distinction

65 – 74% = Honours

50 – 64% = Pass

0 – 49% = Fail

12.2 The candidate obtains a pass in every course or subject examined for each Part at the first attempt.

## **BACHELOR OF SCIENCE HONOURS DEGREE (BSC HONS)**

### **1. INTRODUCTION**

These Regulations should be read in conjunction with the General Academic Regulations for undergraduate degrees, hereinafter referred to as the General Regulations which shall have precedence over the Faculty Regulations. The BSc Honours degree will be awarded to a candidate who has successfully completed the approved courses and examinations set out below. The degree is available in each of the following subjects: Veterinary Anatomy, Veterinary Biochemistry and Veterinary Physiology and will normally be available to approved students on the BVSc Degree programme. The degree will be intercalated within the BVSc programme.

### **2. ENTRY REQUIREMENTS**

- 2.1 Candidates will be admitted into the programme after successful completion of BVSc Part I in the case of Veterinary Biochemistry and BVSc Part II in the case of Veterinary Anatomy and Veterinary Physiology.
- 2.2 To be eligible to apply for admission to the intercalated Bsc Honours programme an applicant must normally have obtained a 2.2 grade or better in the subject in which he/she wishes to specialise.
- 2.3 The aggregate referred to in regulation 2.2 must have been achieved at first sitting.

### **3. APPLICATION PROCEDURES**

- 3.1 Application for registration must be made through the Chairman of the Department of Preclinical Veterinary Studies and the Dean of Veterinary Science to the Deputy Registrar (Academic).
- 3.2 Registration will normally take place in March.

### **4. PROGRAMME**

The programme will extend over not less than one academic year on a full-time basis at the University of Zimbabwe. It will comprise coursework, practical work, written and oral examinations, seminars and a research project as prescribed in the detailed regulations below.

### **5. SCHEME OF EXAMINATION**

- 5.1 Each candidate shall take six three-hour written papers and a half-hour oral examination, normally in November.
- 5.2 Practical work, coursework and seminars will be assessed continuously through the year and will together constitute 33.3% of the overall mark.
- 5.3 Each candidate will be required to complete a dissertation which may be examined orally.
- 5.4 A candidate must satisfy the examiners in the examination as a whole.
- 5.5 Supplementary examinations may be permitted in accordance with the provisions of the General Regulations and will normally be held in February.

### **6. NOTIFICATION OF RESULTS**

Each candidate will be notified of the results of the examination by the Deputy Registrar (Academic).

### **7. AWARD OF DEGREE**

A Diploma under the seal of the University will be delivered to each candidate who has successfully completed the approved courses and examinations in accordance with the above regulations. The degree will be classified in accordance with the General Regulations.

## BACHELOR OF SCIENCE HONOURS DEGREE IN VETERINARY BIOCHEMISTRY

### 1. SUMMARY STATEMENT ON THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY BIOCHEMISTRY

The Honours programme in Veterinary Biochemistry will be based on the intensive post-Part I and II courses.

Honours training will provide the student with better preparation for postgraduate study. The main features of the BSc Honours Degree programme in Veterinary Biochemistry are:

- (a) The Honours programme provides for teaching of Biochemistry in greater depth than in a general programme.
- (b) The course on readings in Biochemistry gives the student training in critically reading the original literature in Biochemistry.
- (c) The Honours Research Project gives the student some training in pursuing a research project and writing up the results in a thesis.

### 2. STRUCTURE OF THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY BIOCHEMISTRY

#### 2.1 Admission to BSc Honours Degree in Veterinary Biochemistry

To be eligible for admission to the BSc Honours Degree Programme in Veterinary Biochemistry, a candidate must have achieved a grade of 2.2 or better in Veterinary Biochemistry I and passed in all other BVSc Part I subjects at the first sitting.

#### 2.2 Courses for Intercalated BSc Honours Degree in Veterinary Biochemistry

Protein Structure and Function	HBC3V01
Nucleic Acid Biochemistry	HBC3V02
Clinical Chemistry	HBC3V03
Metabolic Regulation	HBC3V04
Carcinogenesis Toxicology and Drug Metabolism	HBC3V05
Biochemistry of Parasites	HBC3V06
Advanced Techniques in Biochemistry	HBC3V50
Readings in Biochemistry	HBC3V51
Honours Research Project	HBC3V60
Viva/Oral	HBC3V90

#### 2.3 Examinations

- (a) Courses HBC3V01, HBC3V02, HBC3V03, HBC3V04, HBC3V05 and HBC3V06 by a three-hour written paper for each course.
- (b) Courses HBC3V50, HBC3V51 and HBC3V60 by continuous assessment.
- (c) Oral Examination (HBC3V90).

### DESCRIPTION OF COURSES FOR THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY BIOCHEMISTRY

**Course 1:** Protein Structure and Function HBC3V01  
Advanced treatment of protein structure in relation to regulatory modification and hormonal interactions. Enzyme kinetics, membrane and muscle proteins, visual pigments and immunochemistry.

**Course 2:** Nucleic Acid and Biochemistry HBC3V02  
Advanced treatment of structure and function of nucleic acids and chromosomes. DNA damage and repair. Virology recombinant DNA technology, and drug analogues.

**Course 3:** Clinical Biochemistry HBC3V03  
A combination of lectures, practicals and demonstrations. The courses would include sampling and handling of specimens, reporting of results, quality control. Tests for Liver, intestinal, gastric, pancreatic, renal, endocrine and thyroid function. Practical will be conducted in the chemistry Laboratory in the Clinical Department and will include measurement of vitamins, enzymes, sugars, amino acids and proteins, lipids, blood gases and electrolytes.

**Course 4:** Metabolic Regulation HBC3V04  
A study of regulation of various metabolic pathways. Control mechanisms like

hormones, promoters, repressors are highlighted.

**Course 5:** Carcinogenesis, Toxicology and Drug Metabolism HBC3V05  
A study of chemistry of a wide variety of xenobiotics and genotoxic substances, their chemical synthesis, their metabolism and mode of action; cell detoxification mechanisms.  
Environmental toxicology.

**Course 6:** Biochemistry of Parasites HBC3V06  
A study of biochemical mechanisms involved in parasitism. Strategies for drug design, host-parasite interaction, and impact on animal health care systems.  
Continuous Assessment Advanced Techniques in Biochemistry HBC3V50  
Laboratory purification and characterisation of selected biomolecules. Techniques to include ultracentrifugation, enzyme assays, use of radioisotopes, all models of chromatography and electrophoresis.

Readings in Biochemistry HBC3V51  
Library research on assigned topic. Periodic briefing sessions. Critical reading of original literature and data interpretation from the basis for writing two papers (1 200 words each). First paper due end of June and second paper due end of October.

Honours Research Project HBC3V60  
Two term laboratory research culminating in the presentation of a seminar and a 20 page type written thesis (6 000– 8 000 words) during the third term.

## BACHELOR OF SCIENCE HONOURS DEGREE IN VETERINARY PHYSIOLOGY

### 1. SUMMARY STATEMENT ON THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY PHYSIOLOGY

The honours programme will provide the candidate with a more comprehensive understanding of Veterinary Physiology following Part II of the BVSc programme. The candidate will have the opportunity to study Physiology in more breadth and depth than in the BVSc programme, to gain experience in the critical reading of original literature, to present a seminar, and to conceive, carry out, and report on an original research project.

### 2. STRUCTURE OF THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY PHYSIOLOGY

- 2.1 Admission to the BSc Honours Degree in Veterinary Physiology
- 2.1.1 Candidates will be admitted into the programme after successful completion of BVSc Part I.
- 2.1.2 To be eligible to apply, an applicant must normally have achieved an aggregate Grade of 2.2 or better in Veterinary Physiology (Parts I and II) at first sitting and satisfactory passes in all part II subjects at first sitting.
- 2.2 Courses for the Intercalated BSc Honours Degree in Veterinary Physiology
- |  |        |
|--|--------|
| Advanced Systematic Veterinary Physiology        | PY3V01 |
| Advanced Cell Physiology                         | PY3V02 |
| Advanced Comparative Gastrointestinal Physiology | PY3V03 |
| Advanced Reproductive Physiology                 | PY3V04 |
| Clinical Pathophysiology                         | PY3V05 |
| Advanced techniques in Physiology Research       | PY3V06 |
| Coursework Assessment                            | PY3V50 |
| Readings in Veterinary Physiology                | PY3V52 |
| Honours Research Project                         | PY3V60 |
- 2.3 Examinations
- 2.3.1 Courses PY3V01, PY3V02, PY3V03, PY3V04, PY3V05 and PY3V06 will each have a three hour written examination paper in November
- 2.3.2 Courses PY3V52 and PY3V50 will be examined by Continuous Assessment. Together they will constitute 33% of the overall mark.
- 2.3.3 The Research project (PY3V60) will be examined in November. The examination will include the report, a seminar and may also be judged by oral examination.
- 2.3.4 Each candidate will have a half-hour oral examination, normally in November covering relevant aspects of Physiology (PY3V90)

### DESCRIPTION OF COURSES FOR THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY PHYSIOLOGY

- Course 1:** Advanced Systematic Physiology PY3V01  
Advanced principles of Physiology of the following systems: nervous, cardiovascular, gastrointestinal, endocrine, reproductive, respiratory and renal.
- Course 2:** Advanced Cellular Physiology PY3V02  
Advanced concepts of the structure and function of the cell membrane and cytoplasmic organelles. The genetic control of protein synthesis, cell function, and cell reproduction will also be included.
- Course 3:** Advanced Comparative Gastrointestinal Physiology PY3V03  
A detailed study on the consequence of an adopted feed preference and sequence of digestion and fermentation of grazing and browsing herbivores (domestic and game) for the functioning of the GIT and the acquirement of energy and essential nutrients.
- Course 4:** Advanced Comparative Reproductive Physiology PY3V04  
Advanced principles of male and female reproductive physiology with an emphasis on the domestic ruminant.
- Course 5:** Clinical Pathophysiology PY3V05  
Selected topics in clinical veterinary pathophysiology with the help of academic staff in the Departments of Clinical and Paraclinical Veterinary Studies.
- Course 6:** Advanced Techniques in Physiology Research PY3V06

Research techniques in physiology will be studied with an emphasis on techniques currently in use in the Department of Preclinical Veterinary Studies. Readings in Veterinary Physiology

PY3V52

**Critical Reading** The Candidate must read and discuss critically with a member of the academic staff at least five original research papers on two physiological subjects. The candidate must present seminars on each of the two subjects.

**Honours Research Project**

PY3V60

The candidate must conceive, carry out and report an original research project with the guidance of a member of the Department's academic staff. This will consist of a two term laboratory research project culminating in the presentation of a seminar and a 20 page type written thesis (6 000-8 000 words) during the third term.

**Coursework Assessment**

PY3V50

This will include term tests, practicals and assignments.

## BACHELOR OF SCIENCE HONOURS DEGREE IN VETERINARY ANATOMY

### 1. SUMMARY STATEMENT ON THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY ANATOMY

The honours programme is to be based on an intensive training in veterinary anatomy after BVSc Part II. This provides an opportunity to the candidate for critical search and survey of the published literature in selected areas of the discipline. Also the student is exposed to limited independent research and incorporating the results thereof into a thesis.

### 2. STRUCTURE OF THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY ANATOMY

#### 2.1 Admission to the BSc Honours Degree in Veterinary Anatomy

2.1.1 To be eligible for admission to this programme, an applicant should normally have achieved a 2.2 grade (60-69%) or better aggregate in the Veterinary Anatomy I at the first sitting and satisfactory passes in all other Part II subjects.

#### 2.1.2 Courses for the Intercalated BSc Honours Degree in Veterinary Anatomy

Course 1	Advanced systematic bovine anatomy (10 lect : 10 lab)	AT3V01
Course 2	Advanced comparative anatomy (10 lect : 10 lab)	AT3V02
Course 3	Avian anatomy (20 lect:10 lab)	AT3V03
Course 4	Neurosciences (20 lect)	AT3V04
Course 5	Advanced systematic histology (20 lect : 10 lab)	AT3V05
Course 6	Advanced developmental anatomy (20 lect)	AT3V06
Course 7	Readings in veterinary anatomy	AT3V52
Course 8	Honours research project	AT3V60
Course 9	Coursework assessment	AT3V50

Note: Each laboratory session is of 3 hours duration.

#### 2.2 Examinations

2.3.1 AT3V01, AT3V02, AT3V03, AT3V04, AT3V05, AT3V06, will have a 3-hour examination paper for each course.

2.3.2 The courses AT3V500 and AT3V52 will be examined by continuous assessment. Together they will contribute 33% of the overall mark.

2.3.3 The research project (AT3V60) will be examined in November. The examination will include the report, a seminar and may also be judged by oral examination.

2.3.4 Each candidate will have an oral examination of \_ hour duration.

### DESCRIPTION OF COURSES FOR THE INTERCALATED BSC HONOURS DEGREE IN VETERINARY ANATOMY

**Paper 1** Advanced systematic Bovine Anatomy (1:1) AT3V01

Detailed study of a selected bovine organ system by dissection and demonstration.

**Paper 2** Advanced Comparative Anatomy (1:) AT3V02

Detailed study of selected organ systems human, porcine, reptilian, piscine or other selected (relevant species) by dissection and demonstration.

**Paper 3** Avian Anatomy (2:1) AT3V03

Detailed study of anatomy of the domestic fowl; preparation of specimens of anatomical interest.

**Paper 4** Neurosciences (2 lect:) AT3V04

The neuroanatomy and neurophysiology of selected aspect of the nervous system of domestic animals.

**Paper 5** Advanced Systematic Histology (2:1) AT3V05

A detailed study of the microscopic anatomy of selected organ system of domestic animal species of veterinary significance. Emphasis will be laid on correlating the structural basis for physiological functioning.

**Paper 6** Advanced Developmental Anatomy (2:1) AT3V06

A comprehensive study of developmental aspects including teratogenesis of selected organ systems of domestic animal species of veterinary significance; Preparation of specimens of embryological interest.

Readings in Veterinary Anatomy (by arrangement) AT3V52

A critical survey of published literature on an assigned topic; Presentation of paper based on proper appraisal of the material available and candidate's interpretations.

Honours Research Project (by arrangement)

AT3V60

A two-term laboratory research leading to the presentation of a seminar and 20-page typewritten thesis during the term. This will be examined in term III.

Coursework Assessment

AT3V50

This will include term tests, practicals and assignments.

## FACULTY OF VETERINARY SCIENCE

### REGULATIONS FOR DIPLOMA IN VETERINARY NURSING

These regulations shall apply to candidates who register for the Diploma in Veterinary Nursing in the Department of Clinical Veterinary Studies. They should be read in conjunction with the General Academic Regulations for the Certificates and Diplomas of the University of Zimbabwe (GAR).

#### 1. ENTRY REGULATIONS

- 1.1 Applicants must have passed a minimum of 5 'O' level subjects including English Language, Maths and Biology.
- 1.2 Every candidate must be attached to a Registered Veterinary Practice for the duration of the study and obtain a recommendation from their attachment practice.

#### 2. DURATION OF THE PROGRAMME.

- 2.1 The programme is offered on full-time basis for a period of two years.

#### 3. STRUCTURE OF PROGRAMME

- 3.1 The programme will be divided into three parts of 1 part-time academic year each.
- 3.2 Each part will be taught in 3 courses, which shall be compulsory. Candidates with relevant qualifications such as Diploma in Animal Health and Production or Certificate in Animal Health may be exempted from taking certain courses.
- 3.3 Each course will have a theoretical and a practical component.
- 3.4 The parts of the programme shall be made up as follows:

##### 3.4.1 Part I (First Year)

- 3.4.1.1 Course I (Animal Husbandry): DVN 401  
Will cover aspects of animal handling and restraint, hygiene, housing and feeding. Total contact hours = 35 hours (theory) and at least 75 hours (practical).
- 3.4.1.2 Course II (First Aid): DVN 402  
Will cover basic first aid techniques for animals. Total Contact hours = 35 hours (theory) and at least 50 hours (practical).
- 3.4.1.3 Course I (Anatomy and Physiology): DVN 403  
Will cover basic anatomy and physiology of all domesticated animals. Total contact hours = 85 hours (theory) and at least 75 hours (practical).
- 3.4.1.4 Course IV (Basic Hospital Practice and Management): DVN 404  
Will cover stock control, record keeping, reception skills, creating and monitoring business relationships. Total contact hours = 35 hours (theory) and at least 50 hours (practical).

##### 3.4.2 Part II (Second Year)

- 3.4.2.1 Course V (General Nursing): DVN 405  
Will cover care of patient, occupational hazards, management of housing facilities for animals, basic pharmacology and fluid therapy. Total contact hours = 35 hours (theory) and at least 50 hours (practical).
- 3.4.2.2 Course VI (Diagnostic Aids): DVN 406  
Will cover clinical pathology, radiology and ultrasonography. Total Contact hours = 45 hours (theory) and at least 50 hours (practical).
- 3.4.2.3 Course VII (Obstetric and Paediatric Nursing): DVN407  
Will cover special care of the obstetric and paediatric patient. Total contact hours = 25 hours (theory) and at least 50 hours (practical).
- 3.4.2.4 Course VIII (Medical Nursing): DVN 408  
Will cover medical disorders and their nursing. Total contact hours = 45 hours (theory) and at least 75 hours (practical).
- 3.4.2.5 Course IX (Surgical Nursing): DVN409

Will cover anesthesia, theatre practice, care of the surgical patient, care of the anaesthetized patient and maintenance of surgical and anaesthetic equipment. Total Contact hours = 45 hours (theory) and at least 75 hours (practical).

#### **4. ASSESSMENT OF CANDIDATES**

- 4.1 All courses shall be examined by continuous assessment and formal examination.
- 4.2 Practical work (a Practical Book will be issued at time of enrolment) will consist of work at the candidate's Veterinary Practice as well as work at the University of Zimbabwe Veterinary Teaching Hospital and will contribute to the continuous assessment. Formal examinations will be held upon the completion of teaching of each course.
- 4.3 The formal examination shall consist of theory paper, practical examination and oral examination for each course.
  - 4.3.1 Theory examinations: All courses shall have a theory examination of 3 hours duration.
  - 4.3.2 Practical Examination: There shall be a Practical Examination of 2 hours duration, whose format is to be designed by the examining board.
  - 4.3.3 Oral Examination: There shall be an oral examination of approximately 15min minutes duration for each course.

#### **4.4 Distribution of marks**

In all courses of the programme, examination marks shall be distributed as follows:-

Theory Papers	35
Practical Papers	30
Oral Examinations	10
Continuous Assessment	25
<b>TOTAL</b>	<b>100</b>

#### **5. PROVISIONS FOR PASSING AND/OR PROCEEDING IN A PROGRAMME**

- 5.1 Candidates must have passed all exams of each academic year before they can be allowed to proceed to the next academic year.
- 5.2 Candidates must pass all exams (Part I — Part II) to attain the award of Diploma in Veterinary Nursing.

#### **6. SUPPLEMENTARY EXAMINATIONS**

These will be held in accordance with the General Academic Regulations

# UNIVERSITY OF ZIMBABWE

## FACULTY OF VETERINARY SCIENCE

Regulations for the Master of Veterinary Science degree in Ruminant Medicine [MVSc (Ruminant Medicine)]

### 1. INTRODUCTION

- 1.1 These regulations shall apply to candidates who register for the MVSc in Ruminant Medicine and should be read in conjunction with the General Academic Regulations for Masters Degrees by Coursework, hereinafter referred to as the General Regulations.
- 1.2 The programme shall consist of two parts, Part I shall consist of taught coursework and Part II a research dissertation.

### 2. ENTRY REQUIREMENTS

- 2.1. To be admitted into the programme, applicants should have a recognized BVSc degree or equivalent, with a classification of lower second class or better in Ruminant Medicine
- 2.2. Candidates with a third class in Ruminant Medicine but who have acquired at least five years of good practicing experience in the relevant field may also be considered for admission into the programme and may be required to sit for a qualifying examination.

### 3. DURATION OF THE PROGRAMME

- 3.1. The programme shall be offered on a full-time basis for two academic years and shall normally commence at the start of the academic year.

### 4. REGISTRATION

- 4.1. Application for admission with the necessary supporting documents should be made to the Deputy Registrar (Academic) on the appropriate form.

### 5. STRUCTURE OF THE PROGRAMME

- 5.1. The programme shall comprise of TWO Parts, Part I shall consist of taught courses and Part II shall consist of a research dissertation.
- 5.2. The taught part shall comprise of five compulsory and a selected elective course. There will be a total of 512 contact hours and each course shall consist of at least 60 contact hours of which about 60% are formal lectures and the remainder shall comprise practicals. Lectures and practicals shall normally be conducted under the aegis of the University. The candidate, in liaison with the supervisor shall make the choice of one elective course.
- 5.3. The taught component of the programme shall be spread over two semesters. Professional examinations will be held at the end of the second semester.

- 5.4. The dissertation will commence after successful completion of Part I. The dissertation may be undertaken either at the University of Zimbabwe or, at some other place approved by the University. Where a candidate is permitted to undertake research work in another place, an Associate Supervisor in that place will normally be required. Before conducting the research, approval of the research by the candidate's supervisor and by the Board of Clinical Veterinary Studies Department shall be required.

## 6. SCHEME OF EXAMINATIONS

- 6.1. Each candidate shall be required to pass all courses as listed below. All courses will be assessed on the basis of one 3-hour examination theory paper, one 3-hour practical paper, 15-minute oral and coursework. The coursework shall be assessed through written assignments, clinical/laboratory reports and fieldwork/laboratory reports. A candidate must satisfy the examiners in both the final examination and the coursework in each course. Coursework shall contribute 30%, theory paper 40%, practical paper 20% and oral 10% of the final mark in any course. Each course will contribute towards the final examination mark for Part I as indicated below.

Code	Description	% Weight	Examination
XXX	Bacterial, viral & fungal diseases of ruminants	30	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Parasitic diseases of ruminants	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Non-infectious diseases of ruminants	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Diagnostic approaches to ruminant medicine, communication & extension	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Research Methods & Biostatics	14	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Elective course	11	1×2hr theory paper, 1×2hr practical paper, 1/4hr Viva

- 6.2. A pass mark as prescribed in the General Regulations is the minimal acceptable mark in all courses of the programme, the dissertation and case reports.
- 6.3. A student may write a supplementary examination for a failed course in accordance with the General Regulations.
- 6.4. Examination of Part II shall be in the form of a submitted dissertation, an oral presentation of research findings, which shall be examined by a Panel of Examiners. The written dissertation shall contribute 80% and oral presentation 20% of the final mark in Part II.
- 6.5. The deadline for submission of the dissertation shall normally be the 30th of May of the second year.
- 6.6. On completion of the dissertation the candidate will be required to submit three copies for examination.

- 6.7. A candidate whose dissertation is unsatisfactory may be allowed to re-submit on such conditions and within such period of time as specified by the Board of Examiners, which shall normally be within three months after notification of results.
- 6.8. After the dissertation has been examined and amended in accordance with the discretion of the Board of Examiners, the candidate shall submit three bound copies in accordance with the General Regulations for Masters Degrees by Course work.
- 6.9. A student must pass all courses examined in Part I and Part II to qualify for the award of the MVSc degree.
- 6.10. The MVSc degree will be awarded with a Pass, a Credit, a Merit or a Distinction according to the General Regulations.

## 7. PROGRAMME COURSES

### 7.1. Part I

#### *Compulsory courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical/Tutorial hours</b>	<b>Total hours</b>
XXX	Bacterial, viral & fungal diseases of ruminants	110	50	160
XXX	Parasitic diseases of ruminants	60	16	76
XXX	Non-infectious diseases of ruminants	60	16	76
XXX	Diagnostic approaches to ruminant medicine, communication & extension	60	16	76
XXX	Research Methods & Biostatistics	50	22	72

#### *Elective courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical/Tutorial hours</b>	<b>Total hours</b>
XXX	Pharmacology	48	12	60
XXX	Ruminant surgery & anaesthesia	48	12	60

XXX	Pathology	48	12	60
XXX	Ruminant theriogenology & herd health	48	12	60

**7.2. Part II**

<b>Course code</b>	<b>Course description</b>
XXX	Dissertation

8. Detailed syllabuses of the courses do not form part of these regulations but shall be kept in the Department of Clinical Veterinary Studies for reference.

# UNIVERSITY OF ZIMBABWE

## FACULTY OF VETERINARY SCIENCE

Regulations for the Master of Veterinary Science degree in Small Animal Medicine [MVSc (Small Animal Medicine)]

### 1. INTRODUCTION

- 1.3 These regulations shall apply to candidates who register for the MVSc in Small Animal Medicine and should be read in conjunction with the General Academic Regulations for Masters Degrees by Coursework, hereinafter referred to as the General Regulations.
- 1.4 The programme shall consist of two parts, Part I shall consist of taught coursework and Part II a research dissertation.

### 2. ENTRY REQUIREMENTS

- 2.1 To be admitted into the programme, applicants should have a recognized BVSc degree or equivalent, with a classification of lower second class or better in Small Animal Medicine
- 2.2 Candidates with a third class in Small Animal Medicine but who have acquired at least five years of good practicing experience in the relevant field may also be considered for admission into the programme and may be required to sit for a qualifying examination.

### 3. DURATION OF THE PROGRAMME

- 3.1 The programme shall be offered on a full-time basis for two academic years and shall normally commence at the start of the academic year.

### 4. REGISTRATION

- 4.1 Application for admission with the necessary supporting documents should be made to the Deputy Registrar (Academic) on the appropriate form.

### 5. STRUCTURE OF THE PROGRAMME

- 5.1 The programme shall comprise of TWO Parts, Part I shall consist of taught courses and Part II shall consist of a research dissertation and clinical case reports.
- 5.2 The taught part shall comprise of five compulsory and a selected elective course. There will be a total of 512 contact hours and each course shall consist of at least 60 contact hours of which about 60% are formal lectures and the remainder shall comprise practicals. Lectures and practicals shall normally be conducted under the aegis of the University. The candidate, in liaison with the supervisor shall make the choice of one elective course.

- 5.3 The taught component of the programme shall be spread over two semesters. Professional examinations will be held at the end of the second semester.
- 5.4 The dissertation will commence after successful completion of Part I. Clinical case reports will commence at the start of the programme but will be examinable in the second year. The dissertation may be undertaken either at the University of Zimbabwe or, at some other place approved by the University. Where a candidate is permitted to undertake research work in another place, an Associate Supervisor in that place will normally be required. Before conducting the research, approval of the research by the candidate's supervisor and by the Board of Clinical Veterinary Studies Department shall be required.

## 6. SCHEME OF EXAMINATIONS

- 6.1 Each candidate shall be required to pass all courses as listed below. All courses will be assessed on the basis of one 3-hour examination theory paper, one 3-hour practical paper, 15-minute oral and coursework. A candidate must satisfy the examiners in both the final examination and the coursework in each course. Coursework shall contribute 30%, theory paper 40%, practical paper 20% and oral 10% of the final mark in any course. Each course will contribute towards the final examination mark for Part I as indicated below.

Code	Description	% Weight	Examination
MVSAM 501	Small Animal Internal Medicine	30	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
MVSAM 505	Small Animal Surgery, Anaesthesiology & Radiology	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
MVSAM 503	Small Animal Theriogenology	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
MVSAM 504	Clinical Pathology	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Research Methods & Biostatistics	14	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Elective course	11	1×2hr theory paper, 1×2hr practical paper, 1/4hr Viva

- 6.2 A pass mark as prescribed in the General Regulations is the minimal acceptable mark in all courses of the programme, the dissertation and case reports.
- 6.3 A student may write a supplementary examination for a failed course in accordance with the General Regulations.

- 6.4 Examination of Part II shall be in the form of a submitted dissertation, an oral presentation of research findings, which shall be examined by a Panel of Examiners, and five submitted clinical case reports. The cases reports shall be assessed by internal examiners and shall be equally weighted. The written dissertation shall contribute 60%, oral presentation 20% and clinical case reports 20% of the final mark in Part II.
- 6.5 The deadline for submission of the dissertation and clinical case reports shall normally be the 30th of May of the second year.
- 6.6 On completion of the dissertation the candidate will be required to submit three copies for examination and also three copies each of the case reports.
- 6.7 A candidate whose dissertation is unsatisfactory may be allowed to re-submit on such conditions and within such period of time as specified by the Board of Examiners, which shall normally be within three months after notification of results.
- 6.8 After the dissertation has been examined and amended in accordance with the discretion of the Board of Examiners, the candidate shall submit three bound copies in accordance with the General Regulations for Masters Degrees by Course work.
- 6.9 A student must pass all courses examined in Part I and Part II to qualify for the award of the MVSc degree.
- 6.10 The MVSc degree will be awarded with a Pass, a Credit, a Merit or a Distinction according to the General Regulations.

## 7. PROGRAMME COURSES

### 1.1 Part I

#### *Compulsory courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical hours</b>	<b>Total Hours</b>
MVSAM 501	Small Animal Internal Medicine	110	50	160
MVSAM 505	Small Animal Surgery, Anaesthesiology & Radiology	60	16	76
MVSAM 503	Small Animal Theriogenology	60	16	76
MVSAM 504	Clinical Pathology	60	16	76

XXX	Research Methods & Biostatistics	50	22	72
-----	----------------------------------	----	----	----

*Elective courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical hours</b>	<b>Total Hours</b>
XXX	Pharmacology	48	12	60
XXX	Parasitology	48	12	60
XXX	Pathology	48	12	60
XXX	Microbiology	48	12	60

**1.2 Part II**

<b>Course code</b>	<b>Course description</b>	<b>Dissertation</b>
<i>MVASM X</i>		<i>Clinical case reports</i>

8. Detailed syllabuses of the courses do not form part of these regulations but shall be kept in the Department of Clinical Veterinary Studies for reference.

## UNIVERSITY OF ZIMBABWE

### FACULTY OF VETERINARY SCIENCE

Regulations for the Master of Veterinary Science degree (MVSc) or Master of Science degree (MSc) in Veterinary Epidemiology

#### 1. INTRODUCTION

1.1. These regulations shall apply to candidates who register for the MVSc or MSc in Veterinary Epidemiology and should be read in conjunction with the General Academic Regulations for Masters Degrees by Coursework, hereinafter referred to as the General Regulations.

1.2. The programme shall consist of two parts, Part I shall consist of taught coursework and Part II a research dissertation.

#### 2. ENTRY REQUIREMENTS

2.1. To be admitted into the programme, applicants should have a recognized BVSc or BSc degree or equivalent, with a classification of lower second class or better in an Epidemiology course.

2.2. Candidates with a third class in an Epidemiology course but who have acquired at least five years of good practicing experience in the relevant field may also be considered for admission into the programme and may be required to sit for a qualifying examination.

#### 3. DURATION OF THE PROGRAMME

3.1. The programme shall be offered on a full-time basis for two academic years and shall normally commence at the start of the academic year.

#### 4. REGISTRATION

4.1. Application for admission with the necessary supporting documents should be made to the Deputy Registrar (Academic) on the appropriate form.

#### 5. STRUCTURE OF THE PROGRAMME

5.1. The programme shall comprise of TWO Parts, Part I shall consist of taught courses and Part II shall consist of a research dissertation and case reports.

5.2. The taught part shall comprise of five compulsory courses. There will be a total of 512 contact hours and each course shall consist of at least 60 contact hours of which about 60% are formal lectures and the remainder shall comprise practicals. Lectures and practicals shall normally be conducted under the aegis of the University.

5.3. The taught component of the programme shall be spread over two semesters. Professional examinations will be held at the end of the second semester.

5.4. The dissertation will commence after successful completion of Part I. The dissertation may be undertaken either at the University of Zimbabwe or, at some other place approved by the University. Where a candidate is permitted to undertake research work in another place, an Associate Supervisor in that place will normally be required. Before conducting the research, approval of the research by the candidate's supervisor and by the Board of Clinical Veterinary Studies Department shall be required.

## 6. SCHEME OF EXAMINATIONS

6.1. Each candidate shall be required to pass all courses as listed below. All courses will be assessed on the basis of one 3-hour examination theory paper, one 2-hour practical paper, 15-minute oral and coursework. A candidate must satisfy the examiners in both the final examination and the coursework in each course. Coursework shall contribute 30%, theory paper 40%, practical paper 20% and oral 10% of the final mark in any course. Each course will contribute towards the final examination mark for Part I as indicated below.

<b>Code</b>	<b>Description</b>	<b>% Weight</b>	<b>Examination</b>
MVVE 503	Principles of epidemiology, disease control & evaluation of diagnostic tests	20	1×3hr theory paper, 1×2hr practical paper, 1/4hr Viva
MVVE 507	Epidemiologic study designs	20	1×3hr theory paper, 1×2hr practical paper, 1/4hr Viva
MVVE 514	Data collection methods, sampling strategies & descriptive statistics/epidemiology	20	1×3hr theory paper, 1×2hr practical paper, 1/4hr Viva
MVVE 511	Analytical statistics/epidemiology & application of computers in epidemiology	20	1×3hr theory paper, 1×2hr practical paper, 1/4hr Viva
MVVE 505	Research reports, animal health economics & disease modeling	20	1×3hr theory paper, 1×2hr practical paper, 1/4hr Viva

6.2 A pass mark as prescribed in the General Regulations is the minimal acceptable mark in all courses of the programme, the dissertation and case reports.

6.3 A student may write a supplementary examination for a failed course in accordance with the General Regulations.

6.4 Examination of Part II shall be in the form of a submitted dissertation, an oral presentation of research findings, which shall be examined by a Panel of Examiners. The written dissertation shall contribute 80% and oral presentation 20% of the final mark in Part II.

6.5 The deadline for submission of the dissertation will be the 30th of May of the second year.

- 6.6 On completion of the dissertation the candidate will be required to submit three copies for examination.
- 6.7 A candidate whose dissertation is unsatisfactory may be allowed to re-submit on such conditions and within such period of time as specified by the Board of Examiners, which shall normally be within three months after notification of results.
- 6.8 After the dissertation has been examined and amended in accordance with the discretion of the Board of Examiners, the candidate shall submit three bound copies in accordance with the General Regulations for Masters Degrees by Course work.
- 6.9 A student must pass all courses examined in Part I and Part II to qualify for the award of the MVSc or MSc degree.
- 6.10 The MVSc or MSc degree will be awarded with a Pass, a Credit, a Merit or a Distinction according to the General Regulations.

## 7.PROGRAMME COURSES

### 7.1Part I

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical hours</b>	<b>Total hours</b>
MVVE 503	Principles of epidemiology, disease control & evaluation of diagnostic tests	80	24	104
MVVE 507	Epidemiologic study designs	80	22	102
MVVE 514	Data collection methods, sampling strategies & descriptive statistics/epidemiology	80	22	102
MVVE 511	Analytical statistics/epidemiology & application of computers in epidemiology	80	22	102
MVVE505	Research reports, animal health economics & disease modeling	80	22	102

### 7.2Part II

<b>Course code</b>	<b>Course description</b>
MVVE 570	Dissertation

8. Detailed syllabuses of the courses do not form part of these regulations but shall be kept in the Department of Clinical Veterinary Studies for reference.

# UNIVERSITY OF ZIMBABWE

## FACULTY OF VETERINARY SCIENCE

Regulations for the Master of Veterinary Science degree in Veterinary Microbiology [MVSc (Veterinary Microbiology)]

### 1. INTRODUCTION

1.1 These regulations shall apply to candidates who register for the MVSc in Veterinary Microbiology and should be read in conjunction with the General Academic Regulations for Masters Degrees by Coursework, hereinafter referred to as the General Regulations.

1.2 The programme shall consist of two parts, Part I shall consist of taught coursework and Part II a research dissertation.

### 2. ENTRY REQUIREMENTS

2.1 To be admitted into the programme, applicants should have a recognized BVSc degree or equivalent, with a classification of lower second class or better in Veterinary Microbiology

2.2 Candidates with a third class in Veterinary Microbiology but who have acquired at least five years of good practicing experience in the relevant field may also be considered for admission into the programme and may be required to sit for a qualifying examination.

### 3. DURATION OF THE PROGRAMME

3.1 The programme shall be offered on a full-time basis for two academic years and shall normally commence at the start of the academic year.

### 4. REGISTRATION

4.1 Application for admission with the necessary supporting documents should be made to the Deputy Registrar (Academic) on the appropriate form.

### 5. STRUCTURE OF THE PROGRAMME

5.1 The programme shall comprise of TWO Parts, Part I shall consist of taught courses and Part II shall consist of a research dissertation.

5.2 The taught part shall comprise of five compulsory and a selected elective course. There will be a total of 512 contact hours and each course shall consist of at least 60 contact hours of which about 60% are formal lectures and the remainder shall comprise practicals. Lectures and practicals shall normally be conducted under the aegis of the University. The candidate, in liaison with the supervisor shall make the choice of one elective course.

- 5.3 The taught component of the programme shall be spread over two semesters. Professional examination will be held at the end of the second semester.
- 5.4 The dissertation will commence after successful completion of Part I. The dissertation may be undertaken either at the University of Zimbabwe or, at some other place approved by the University. Where a candidate is permitted to undertake research work in another place, an Associate Supervisor in that place will normally be required. Before conducting the research, approval of the research by the candidate's supervisor and by the Board of Paraclinical Veterinary Studies Department shall be required.

## 6. SCHEME OF EXAMINATIONS

- 6.1 Each candidate shall be required to pass all courses as listed below. All courses will be assessed on the basis of one 3-hour examination theory paper, one 2-hour practical paper, 15-minute oral and coursework. A candidate must satisfy the examiners in both the final examination and the coursework in each course. Coursework shall contribute 20%, theory paper 50%, practical paper 20% and oral 10% of the final mark in any course. Each course will contribute towards the final examination mark for Part I as indicated below.

Code	Description	% Weight	Examination
XXX	Bacteriology, Rickettsiology & Mycoplasmaology	23	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Mycology & Food Microbiology	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Immunology & Molecular Biology	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Virology	23	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Research Methods & Biostatistics	14	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Elective course	10	1×2hr theory paper, 1×2hr practical paper, 1/4hr Viva

- 6.2 A pass mark as prescribed in the General Regulations is the minimal acceptable mark in all courses of the programme and the dissertation.
- 6.3 A student may write a supplementary examination for a failed course in accordance with the General Regulations.

- 6.4 Examination of Part II shall be in the form of a submitted dissertation, an oral presentation of research findings, which shall be examined by a Panel of Examiners. The written dissertation shall contribute 80% and oral presentation 20% of the final mark in Part II.
- 6.5 The deadline for submission of the dissertation and clinical case reports shall normally be the 30<sup>th</sup> of May of the second year.
- 6.6 On completion of the dissertation the candidate will be required to submit three copies for examination.
- 6.7 A candidate whose dissertation is unsatisfactory may be allowed to re-submit on such conditions and within such period of time as specified by the Board of Examiners, which shall normally be within three months after notification of results.
- 6.8 After the dissertation has been examined and amended in accordance with the discretion of the Board of Examiners, the candidate shall submit three bound copies in accordance with the General Regulations for Masters Degrees by Course work.
- 6.9 A student must pass all courses examined in Part I and Part II to qualify for the award of the MVSc degree.
- 6.10 The MVSc degree will be awarded with a Pass, a Credit, a Merit or a Distinction according to the General Regulations.

## 7. PROGRAMME COURSES

### 7.1 Part I

#### *Compulsory courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical/Tutorial hours</b>	<b>Total hours</b>
XXX	Bacteriology, Rickettsiology & Mycoplasmaology	90	26	116
XXX	Mycology & Food Microbiology	60	18	78
XXX	Virology	90	26	116
XXX	Immunology & Molecular Biology	60	18	78
XXX	Research Methods & Biostatistics	50	22	72

*Elective courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical/Tutorial hours</b>	<b>Total hours</b>
XXX	Veterinary Public Health	48	12	60
XXX	Epidemiology of Infectious Diseases	48	12	60

**7.2 Part II**

<b>Course code</b>	<b>Course description</b>
XXX	Dissertation

8. Detailed syllabuses of the courses do not form part of these regulations but shall be kept in the Department of Paraclinical Veterinary Studies for reference.

# UNIVERSITY OF ZIMBABWE

## FACULTY OF VETERINARY SCIENCE

Regulations for the Master of Veterinary Science degree in Veterinary Parasitology [MVSc (Veterinary Parasitology)]

### 1. INTRODUCTION

- 1.1. These regulations shall apply to candidates who register for the MVSc in Veterinary Parasitology and should be read in conjunction with the General Academic Regulations for Masters Degrees by Coursework, hereinafter referred to as the General Regulations.
- 1.2. The programme shall consist of two parts, Part I shall consist of taught coursework and Part II a research dissertation.

### 2. ENTRY REQUIREMENTS

- 2.1. To be admitted into the programme, applicants should have a recognized BVSc degree or equivalent, with a classification of lower second class or better in Veterinary Parasitology
- 2.2. Candidates with a third class in Veterinary Parasitology but who have acquired at least five years of good practicing experience in the relevant field may also be considered for admission into the programme and may be required to sit for a qualifying examination.

### 3. DURATION OF THE PROGRAMME

- 3.1. The programme shall be offered on a full-time basis for two academic years and shall normally commence at the start of the academic year.

### 4. REGISTRATION

- 4.1. Application for admission with the necessary supporting documents should be made to the Deputy Registrar (Academic) on the appropriate form.

### 5. STRUCTURE OF THE PROGRAMME

- 5.1. The programme shall comprise of TWO Parts, Part I shall consist of taught courses and Part II shall consist of a research dissertation.
- 5.2. The taught part shall comprise of five compulsory and a selected elective course. There will be a total of 512 contact hours and each course shall consist of at least 60 contact hours of which about 60% are formal lectures and the remainder shall comprise practicals. Lectures and practicals shall normally be conducted under the aegis of the University. The candidate, in liaison with the supervisor shall make the choice of one elective course.
- 5.3. The taught component of the programme shall be spread over two semesters. Professional examinations will be held at the end of the second semester.

5.4. The dissertation will commence after successful completion of Part I. The dissertation may be undertaken either at the University of Zimbabwe or, at some other place approved by the University. Where a candidate is permitted to undertake research work in another place, an Associate Supervisor in that place will normally be required. Before conducting the research, approval of the research by the candidate's supervisor and by the Board of Paraclinical Veterinary Studies Department shall be required.

## 6. SCHEME OF EXAMINATIONS

6.1. Each candidate shall be required to pass all courses as listed below. All courses will be assessed on the basis of one 3-hour examination theory paper, one 2-hour practical paper, 15-minute oral and coursework. A candidate must satisfy the examiners in both the final examination and the coursework in each course. Coursework shall contribute 20%, theory paper 50%, practical paper 20% and oral 10% of the final mark in any course. Each course will contribute towards the final examination mark for Part I as indicated below.

Code	Description	% Weight	Examination
XXX	Helminthology	23	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Protozoology	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Entomology	15	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Tick-borne diseases & Immunology	23	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Research Methods & Biostatistics	14	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Elective course	10	1×2hr theory paper, 1×2hr practical paper, 1/4hr Viva

6.2 A pass mark as prescribed in the General Regulations is the minimal acceptable mark in all courses of the programme and the dissertation.

6.3 A student may write a supplementary examination for a failed course in accordance with the General Regulations.

6.4 Examination of Part II shall be in the form of a submitted dissertation, an oral presentation of research findings, which shall be examined by a Panel of Examiners. The written dissertation shall contribute 80% and oral presentation 20% of the final mark in Part II.

6.5 The deadline for submission of the dissertation and clinical case reports shall normally be the 30<sup>th</sup> of May of the second year.

- 6.6 On completion of the dissertation the candidate will be required to submit three copies for examination.
- 6.7 A candidate whose dissertation is unsatisfactory may be allowed to re-submit on such conditions and within such period of time as specified by the Board of Examiners, which shall normally be within three months after notification of results.
- 6.8 After the dissertation has been examined and amended in accordance with the discretion of the Board of Examiners, the candidate shall submit three bound copies in accordance with the General Regulations for Masters Degrees by Course work.
- 6.9 A student must pass all courses examined in Part I and Part II to qualify for the award of the MVSc degree.
- 6.10 The MVSc degree will be awarded with a Pass, a Credit, a Merit or a Distinction according to the General Regulations.

## 7. PROGRAMME COURSES

### 7.1 Part I

#### *Compulsory courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical/Tutorial hours</b>	<b>Total hours</b>
XXX	Helminthology	90	26	116
XXX	Protozoology	60	18	78
XXX	Entomology	60	18	78
XXX	Tick-borne diseases & Immunology	90	26	116
XXX	Research Methods & Biostatistics	50	22	72

#### *Elective courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical/Tutorial hours</b>	<b>Total hours</b>
XXX	Molecular Biology	48	12	60
XXX	Epidemiology of Parasitic diseases	48	12	60

XXX	Histology and ultra structure of parasites	48	12	60
-----	--	----	----	----

**7.2 Part II**

<b>Course</b>	<b>Course description</b>
---------------	---------------------------

<b>Code</b>	
-------------	--

XXX	Dissertation
-----	--------------

8. Detailed syllabuses of the courses do not form part of these regulations but shall be kept in the Department of Paraclinical Veterinary Studies for reference.

# UNIVERSITY OF ZIMBABWE

## FACULTY OF VETERINARY SCIENCE

Regulations for the Master of Veterinary Science degree in Veterinary Pathology [MVSc (Veterinary Pathology)]

### 1. INTRODUCTION

1.1. These regulations shall apply to candidates who register for the MVSc in Veterinary Pathology and should be read in conjunction with the General Academic Regulations for Masters Degrees by Coursework, hereinafter referred to as the General Regulations.

1.2. The programme shall consist of two parts, Part I shall consist of taught coursework and Part II a research dissertation.

### 2. ENTRY REQUIREMENTS

2.1. To be admitted into the programme, applicants should have a recognized BVSc degree or equivalent, with a classification of lower second class or better in Veterinary Pathology

2.2. Candidates with a third class in Veterinary Pathology but who have acquired at least five years of good practicing experience in the relevant field may also be considered for admission into the programme and may be required to sit for a qualifying examination.

### 3. DURATION OF THE PROGRAMME

3.1. The programme shall be offered on a full-time basis for two academic years and shall normally commence at the start of the academic year.

### 4. REGISTRATION

4.1. Application for admission with the necessary supporting documents should be made to the Deputy Registrar (Academic) on the appropriate form.

### 5. STRUCTURE OF THE PROGRAMME

5.1. The programme shall comprise of TWO Parts, Part I shall consist of taught courses and Part II shall consist of a research dissertation.

5.2. The taught part shall comprise of five compulsory and a selected elective courses. There will be a total of 512 contact hours and each course shall consist of at least 60 contact hours of which about 60% are formal lectures and the remainder shall comprise practicals. Lectures and practicals shall normally be conducted under the aegis of the University. The candidate, in liaison with the supervisor shall make the choice of one elective course.

5.3. The taught component of the programme shall be spread over two semesters. Professional examinations will be held at the end of the second semester.

5.4. The dissertation will commence after successful completion of Part I. The dissertation may be undertaken either at the University of Zimbabwe or, at some other place approved by the University. Where a candidate is permitted to undertake research work in another place, an Associate Supervisor in that place will normally be required. Before conducting the research, approval of the research by the candidate's supervisor and by the Board of Paraclinical Veterinary Studies Department shall be required.

## 6. SCHEME OF EXAMINATIONS

6.1. Each candidate shall be required to pass all courses as listed below. All courses will be assessed on the basis of one 3-hour examination theory paper, one 2-hour practical paper, 15-minute oral and coursework. A candidate must satisfy the examiners in both the final examination and the coursework in each course. Coursework shall contribute 20%, theory paper 50%, practical paper 20% and oral 10% of the final mark in any course. Each course will contribute towards the final examination mark for Part I as indicated below.

Code	Description	% Weight	Examination
XXX	General Pathology	16	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Systematic Pathology	20	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Immunopathology & Immuno-histochemistry	20	1×3hr theory paper, 1×3hr practical paper, 1/4hr Viva
XXX	Pathology of common animal diseases	20	1×3hr theory paper, 1×2hr practical paper, 1/4hr Viva
XXX	Research Methods & Biostatistics	14	1×3hr theory paper, 1×2hr practical paper, 1/4hr Viva
XXX	Elective course	10	1×2hr theory paper, 1×2hr practical paper, 1/4hr Viva

6.2 A pass mark as prescribed in the General Regulations is the minimal acceptable mark in all courses of the programme and the dissertation.

6.3 A student may write a supplementary examination for a failed course in accordance with the General Regulations.

6.4 Examination of Part II shall be in the form of a submitted dissertation, an oral presentation of research findings, which shall be examined by a Panel of Examiners. The written dissertation shall contribute 80% and oral presentation 20% of the final mark in Part II.

- 6.5 The deadline for submission of the dissertation and clinical case reports shall normally be the 30<sup>th</sup> of May of the second year.
- 6.6 On completion of the dissertation the candidate will be required to submit three copies for examination.
- 6.7 A candidate whose dissertation is unsatisfactory may be allowed to re-submit on such conditions and within such period of time as specified by the Board of Examiners, which shall normally be within three months after notification of results.
- 6.8 After the dissertation has been examined and amended in accordance with the discretion of the Board of Examiners, the candidate shall submit three bound copies in accordance with the General Regulations for Masters Degrees by Course work.
- 6.9 A student must pass all courses examined in Part I and Part II to qualify for the award of the MVSc degree.
- 6.10 The MVSc degree will be awarded with a Pass, a Credit, a Merit or a Distinction according to the General Regulations.

## 7. PROGRAMME COURSES

### 7.1 Part I

#### *Compulsory courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical/Tutorial hours</b>	<b>Total hours</b>
XXX	General Pathology	60	22	82
XXX	Systematic Pathology	80	22	102
XXX	Immunopathology & Immunohistochemistry	80	22	102
XXX	Pathology of common animal diseases	80	22	102
XXX	Research Methods & Biostatistics	50	22	72

*Elective courses*

<b>Course Code</b>	<b>Course description</b>	<b>Lecture hours</b>	<b>Practical/Tutorial hours</b>	<b>Total hours</b>
XXX	Molecular Biology	48	12	60
XXX	Epidemiology	48	12	60
XXX	Veterinary Public Health	48	12	60

**7.2 Part II**

***Course code***      ***Course description***

Dissertation

8. Detailed syllabuses of the courses do not form part of these regulations but shall be kept in the Department of Paraclinical Veterinary Studies for reference.