



SULTAN QABOOS UNIVERSITY

COURSE OUTLINE

PROGRAM:

1. Course Code	ANVS2204	
2. Course Title	Veterinary Parasitology	
3. Credits	3 CH, 12 CP, 6 ECTS	
4. Pre-requisite Course(s)	ANVS2002 "Introduction to Veterinary	
5. Co-requisite Course(s)	N/A	
6. Equivalent Course(s)	N/A	
7. Incompatible Course(s)	N/A	
8. Course Category	<input type="checkbox"/> University Requirement	<input type="checkbox"/> University Elective
	<input type="checkbox"/> College Requirement	<input type="checkbox"/> College Elective
	<input checked="" type="checkbox"/> Department Requirement	<input type="checkbox"/> Department Elective
	<input type="checkbox"/> Specialization Requirement	<input type="checkbox"/> Specialization Elective
	<input type="checkbox"/> Other (specify):	
9. Course Owner	College: CAMS	Department: AVS
10. Course Type	<input type="checkbox"/> Lecture	<input checked="" type="checkbox"/> Lecture/Lab
	<input type="checkbox"/> Lecture/Seminar	<input type="checkbox"/> Lecture/Studio
	<input type="checkbox"/> Lecture/Tutorial	<input type="checkbox"/> Lecture/Lab/Tutorial or Seminar
	<input type="checkbox"/> Tutorial	<input checked="" type="checkbox"/> Laboratory (Practical)
	<input checked="" type="checkbox"/> Field or Work Placement	<input type="checkbox"/> Studio
	<input type="checkbox"/> Seminar	<input type="checkbox"/> Internship
	<input type="checkbox"/> Workshop	<input type="checkbox"/> Project
11. Language of Instruction	English	
12. Course Description		
<p>The livestock is usually affected by the surrounding environmental conditions, the most important of which are diseases. The high morbidity, mortality, abortion, infertility and production losses due to parasites and parasitic diseases restrain herd horizontal growth and increase production cost which hinder animal production industry. Most of the infectious diseases (viral and bacterial) are under control by means of vaccines; in contrast parasitic diseases remain to be the main obstacles. Therefore, the aim of this course is to establish knowledge on parasites classification, life cycles, transmission, geographical distribution, diagnosis, control and diseases caused by the major parasites that disturb domestic animals and wildlife.</p>		
13. Teaching/Learning Strategies		
<p>The course will start with a brief introduction on various aspects of the veterinary parasitology, then the students will be gradually guided to learn through theoretical means, including lectures, power point presentation, videos and discussion as well as practical sessions.</p>		
14. Assessment Components and Weight [%]		
<input checked="" type="checkbox"/> Quizzes	<input checked="" type="checkbox"/> Practical	<input type="checkbox"/> Other (specify):
<input checked="" type="checkbox"/> Homework assignments	<input type="checkbox"/> Project	
<input checked="" type="checkbox"/> In-term examination(s)	<input checked="" type="checkbox"/> Final examination	
15. Grading Method		
<input checked="" type="checkbox"/> A-F Scale	<input type="checkbox"/> Pass/Not passed	
16. Textbook(s) and Supplemental Material		
<p>Textbook: 1. Diagnostic Parasitology for Veterinary Technicians by Charles M. Hendrix and Ed Robinson.</p>		

2. Veterinary Parasitology Reference Manual by William J. Foreyt (practical manual).

Supplemental Materials:

1. Course note
2. Power points presentations
3. Microscopic slides and materials for practical session.

17. Matching Course Objectives with Program Outcomes and SQU Graduate Attributes

SQU Graduate Attributes

A. SQU graduates should be able to: <ol style="list-style-type: none"> 1. apply the knowledge and skills relevant to the specialization 2. communicate effectively and use information and communication technologies 3. critically analyze complex information and present it in simple clear manner 	B. SQU graduates possess <ol style="list-style-type: none"> 1. interpersonal communication skills and alignment with culture of international labour market to assist them in practical life and in living successfully 2. skills and motivation for independent learning and engagement in lifelong learning and research 3. work ethics and positive values, and intellectual independence and autonomy 4. teamwork skills and display potential leadership qualities 	C. SQU graduates should <p>relish good citizenship qualities, be conscious of their national identity and be socially responsible, engage in community affairs and be mindful of contemporary issues.</p>
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#	Intended Student Learning Outcome /Course Learning Objective	Relevant Program Outcome(s)	Applicable Attribute(s)
1.	Students will be able to understand the fundamental principles of classification and taxonomy of various types of parasites that infect domestic animals	Demonstrate pertinent knowledge pertaining to preclinical veterinary sciences	A1, A2, A3
2.	Students will become familiar with scientific terminology and symbiosis relationship between parasites and host	Demonstrate pertinent knowledge pertaining to preclinical veterinary sciences	A1, A2, A3
3.	Students will learn the concept and theory behind different characteristic feature, habitat, distribution, pathogenicity and control of protozoa, helminths and arthropods	Demonstrate knowledge of husbandry, diseases, anesthesia and medical and surgical treatment, in small, large and laboratory animal species	A1, A2, A3, B1, B3, B4
4.	Students will become familiar with basic fecal and blood diagnostic techniques involve in differential diagnosis of parasites	Demonstrate proficiency in conducting and interpreting routine diagnostic clinical and radiographic procedures	A1, A2, A3
5.	Enable students to understand the major parasitic infection that cause major disease and hinder production efficiency in domestic animals	Demonstrate ability to seek, find, evaluate and use information and employ information technology to engage in lifelong learning	A1, A2, A3, B3, C

16. Student Responsibilities

It is the student's responsibility to know and comply with all University Academic Regulations relevant to participation in this course. These regulations specifically include attendance requirement and students' academic code of conduct.

For attendance, it is the student's responsibility to be punctual and to attend all classes.

Students are expected to perform their work with honesty and avoid any academic misconduct, which is defined as the use of any dishonest or deceitful means to gain some academic advantage or benefit. This can take many forms, including but not limited to, the following: copying, plagiarism, collusion and forging documents. For full details, please refer to the Undergraduate Academic Regulations and to the Student Academic Misconduct Policy.

Additionally, this course requires that you:

COURSE INFORMATION			
Course Code	ANVS2004	Course Title	Veterinary Parasitology
Semester/ Year	Spring	Section(s)	
Day, Time, and Place			
Course Coordinator	Elshafie Ibrahim Elshafie		
Office Location	2039	Office Hours	
Office Tel. Ext.	1232	Email	eielshafie@squ.edu.om

Tentative Schedule			
Week	Lecture #	Topic/Material to be covered	Assessment
1	1	Introduction to course outline and scientific terminology regarding the veterinary parasitology	
2	2	parasite classification, identification and characteristic features of each phylum	
3	3	Host-parasite relationship; host specificity, host resistance and pathogenicity	
4	4	Classification and characteristic features of endoparasite "helminth"	
5	5	Common helminths in domestic animals and their life cycle, pathogenicity and control	
6	6	Common helminths (cestodes, trematodes, nematodes) in domestic animals and their life cycle, diagnosis, pathogenicity and control	
7	7	Common helminths (cestodes, trematodes, nematodes) in domestic animals and their life cycle, pathogenicity and control	
8	8	Common helminths (cestodes, trematodes, nematodes) in domestic animals and their life cycle, diagnosis, pathogenicity and control	
9	9	Common protozoa (amoeboids, flagellates, sporozoan, ciliates) in domestic animals and their life cycle, diagnosis, pathogenicity and control	
10	10	Common protozoa (amoeboids, flagellates, sporozoan, ciliates) in domestic animals and their life cycle, diagnosis, pathogenicity and control	
11	11	Common protozoa (amoeboids, flagellates, sporozoan, ciliates) in domestic animals and their life cycle, diagnosis, pathogenicity and control	
12	12	Common ectoparasites and their role and parasites distribution and pathogenicity	
13	13	Common ectoparasites and their role and parasites distribution and pathogenicity	
14	14	Methods of parasites control and prevention	

APPENDIX A: INSTRUCTORS OF MULTIPLE SECTIONS

[illegible]

APPENDIX B: ADDITIONAL INFORMATION