



SULTAN QABOOS UNIVERSITY

COURSE OUTLINE

PROGRAM: Veterinary Technology

1. Course Code	ANVS4215	
2. Course Title	Clinical Laboratory Diagnostics and Pathology Rotation	
3. Credits	2 CH, 8 CP, 4 ECTS	
4. Pre-requisite Course(s)	ANVS4110, ANVS4112	
5. Co-requisite Course(s)		
6. Equivalent Course(s)		
7. Incompatible Course(s)		
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 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 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		
This course provides students with opportunities to learn about the role of veterinary technologists in the Veterinary Pathology and clinical pathology. Students will gain knowledge about performing necropsy of different animals, sample collection and writing necropsy reports. Moreover, they will learn about histopathological techniques including sampling, fixation, trimming, sectioning and staining of different histological stains. Hematology, urology, coprology and clinical chemistry laboratory techniques will be studied and applied.		
13. Teaching/Learning Strategies		
Lectures, practical and field trips. Student will be required to conduct presentations related to the learned topics.		
14. Assessment Components and Weight [%]		
<input type="checkbox"/> Quizzes	<input type="checkbox"/> Practical	<input checked="" type="checkbox"/> Other (specify): Presentations 40 Performing required tasks 40
<input type="checkbox"/> Homework assignments	<input type="checkbox"/> Project	
<input type="checkbox"/> In-term examination(s)	<input checked="" type="checkbox"/> Final examination 20	
15. Grading Method		
<input checked="" type="checkbox"/> A-F Scale <input type="checkbox"/> Pass/Not passed		
16. Textbook(s) and Supplemental Material		
Merck Veterinary Manual		

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>

#	Intended Student Learning Outcome /Course Learning Objective	Relevant Program Outcome(s)	Applicable Attribute(s)
1.	Show knowledge about large animals necropsy procedures	Demonstrate proficiency in conducting and interpreting routine diagnostic clinical and radiographic procedures. Demonstrate pertinent knowledge pertaining to preclinical veterinary sciences.	A1, A2, A3
2.	Show knowledge about small animals necropsy procedures	Demonstrate proficiency in conducting and interpreting routine diagnostic clinical and radiographic procedures. Demonstrate pertinent knowledge pertaining to preclinical veterinary sciences.	A1, A2, A3
3.	Show knowledge about avian necropsy procedures	Demonstrate proficiency in conducting and interpreting routine diagnostic clinical and radiographic procedures. Demonstrate pertinent knowledge pertaining to preclinical veterinary sciences.	A1, A2, A3
4.	Show knowledge about histopathological techniques	Demonstrate proficiency in conducting and interpreting routine diagnostic clinical and radiographic procedures. Demonstrate pertinent knowledge pertaining to preclinical veterinary sciences.	A1, A2, A3
5.	Show knowledge about Hematology and urology	Demonstrate proficiency in conducting and interpreting routine diagnostic clinical and radiographic procedures. Demonstrate pertinent knowledge pertaining to preclinical veterinary sciences.	A1, A2, A3
6.	Show knowledge about clinical chemistry and coprology	Demonstrate proficiency in conducting and interpreting routine diagnostic clinical and radiographic procedures. Demonstrate pertinent knowledge pertaining to preclinical veterinary sciences.	A1, A2, A3
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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:

Some weekend and out of hours work may be expected within the rotation.

Each student will provide a minimum of 3 presentations during the course about a specific topic related to the course.

COURSE INFORMATION			
Course Code	ANVS4215	Course Title	Clinical Laboratory Diagnostics and Pathology Rotation
Semester/ Year	Spring	Section(s)	
Day, Time, and Place			
Course Coordinator	Haytham Ali		
Office Location		Office Hours	
Office Tel. Ext.		Email	h.ali@squ.edu.om

Tentative Schedule			
Week	Lecture #	Topic/Material to be covered	Assessment
1		Introduction: Course outline	
2		Necropsy, the Central Veterinary Laboratory, MAF, Sual, Muscat	
3		Necropsy, the Central Veterinary Laboratory, MAF, Sual, Muscat	
4		Necropsy, the Central Veterinary Laboratory, MAF, Sual, Muscat	
5		Necropsy, the Central Veterinary Laboratory, MAF, Sual, Muscat	
6		Histopathological techniques	
7		Histopathological techniques	
8		Hematology	
9		Hematology	
10		Hematology	
11		Urology	
12		Urology	
13		Coprology	
14		Clinical Chemistry	
15		Clinical Chemistry	
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17			

[illegible]

APPENDIX B: ADDITIONAL INFORMATION