

# VM4111: COMPANION ANIMAL SURGERY

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## Effective Term

Semester B 2023/24

## Part I Course Overview

### Course Title

Companion Animal Surgery

### Subject Code

VM - Jockey Club College of Veterinary Medicine and Life Sciences

### Course Number

4111

### Academic Unit

Veterinary Clinical Sciences (VCS)

### College/School

Jockey Club College of Veterinary Medicine and Life Sciences (VM)

### Course Duration

One Semester

### Credit Units

6

### Level

B1, B2, B3, B4 - Bachelor's Degree

### Medium of Instruction

English

### Medium of Assessment

English

### Prerequisites

Completion of Year 3 courses with C grade or above

### Precursors

Nil

### Equivalent Courses

Nil

### Exclusive Courses

Nil

## Part II Course Details

### Abstract

This course covers the theoretical and practical approach to surgical principles, wound management and common surgical disorders and diseases including soft tissue as well as musculoskeletal abnormalities. It connects the before learnt anatomy,

physiology, pathology and pharmacology with clinical knowledge. To do so, a number of training laboratories but also real time surgery will be offered. The course focuses on dogs and cats.

**Key Areas:**

- General Surgical Principles
- Wound Healing and Wound Management
- Soft Tissue Surgery
- Musculoskeletal Surgery

This course provides a sound foundation for clinical rotations in later parts of the program. A variety of teaching techniques are used, including lectures, live animals, cadaver and mannequin laboratories, wet lab exercises, dry lab exercises and discussion, demonstrations and case discussions.

**Course Intended Learning Outcomes (CILOs)**

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Describe common surgical diseases, including their pathogenesis, pathophysiology, diagnostic investigation, treatment and prognosis.		x	x	
2	Apply data collection skills to be able to take and interpret comprehensive surgical histories for canine and feline patients that include background epidemiological information and specific history relevant to the presenting complaint.		x	x	
3	Evaluate patient histories, clinical examination findings, relevant laboratory findings and diagnostic imaging findings to develop differential diagnoses, and propose logical diagnostic investigations.			x	
4	Develop an appropriate treatment plan, considering the diagnosis, overall health of the animal and client resources.			x	x
5	Communicate surgical and non-surgical options available to owners including euthanasia and referral to a specialist considering the welfare of the animal, client resources and relevant veterinary legislation.			x	x
6	Plan and perform desexing surgery on a female cat, and assess the post-surgical recovery.				x
7	Perform common surgical procedures involving the alimentary and urogenital tracts and fracture repair using models and/or simulations.		x	x	x
8	Choose and apply the correct techniques of wound repair, bandaging and splinting as appropriate for the injury.			x	x

**A1: Attitude**

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

**A2: Ability**

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

### A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

### Teaching and Learning Activities (TLAs)

	TLAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Lectures	Lectures will provide essential facts.	1, 2, 3, 4, 5, 6, 7, 8	47 hours in total
2	Case discussions and tutorials	Case discussions will allow students to work through real-life clinical cases. During tutorials students will analyse and interpret data.	1, 2, 3, 4, 5, 6	6 hours in total
3	Practical classes *	Hands-on teaching of practical skills, both on-farm and in the clinical skills laboratory.	1, 2, 3, 4, 5, 6, 7, 8	25 hours in total

### Additional Information for TLAs

\* These are participation and engagement-required TLA sessions. Students can be absent from no more than one of these sessions per course per semester. Additional absence will constitute a course failure.

### Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Quizzes*	1, 2, 3, 4, 5, 6, 7, 8	35	There will be 4 quizzes accounting for 8.75% each
2	Practical Assessments (including OSCE)	1, 2, 3, 4, 5, 6, 7, 8	15	Must Pass OSCE
3	Final examination (2 hours)**	1, 2, 3, 4, 5, 6, 7, 8		Weighting 50%

### Continuous Assessment (%)

50

### Examination (%)

50

### Examination Duration (Hours)

2

### Additional Information for ATs

Students will pass the course if they reach an overall 50% mark or more in the Assessment Task/Activities.

A failing grade (<50%) in the Practical Examination (OSCEs) will lead to an overall F grade for the entire course. Students must pass the Practical Examination before live animal surgery.

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\* Please bring your own laptop and charger for the examination as this is an electronic-based examination using CANVAS and LockDown Browser is required. Late students will not be allowed in the room. Questions will be taken from each respective "block" of lectures given before each quiz (and not cumulative).

Mobile phones, books, articles, calculators, or gadgets are not allowed. Please note that, as each quiz is equivalent to only 8.75% of the total grade, there will not be replacements if you miss it.

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\*\*Please find below the information about the final examination:

Format: There will be either multiple choice questions with one correct answer each or short answer questions where you will need to answer what is requested. The exam corresponds to 50% of the total grade for course VM4111.

Further specific information about the final exam will be posted on Canvas on due time.

Content: The exam will include questions from the entire course with an emphasis on clinical reasoning (cases), principles, and concepts related to surgery.

Where and how: Please login to Canvas with your own laptop (you are responsible for making sure the device is in good working condition and a charger is available accordingly). The lockdown browser is required. You must sit in the allocated rows in the classroom as instructed before examination. Please refer the examination timetable on AIMS for the examination venue.

Other reminders:

According to the Staff Guidelines for the Preparation of Final Examinations Online by City University of Hong Kong, some gentle reminders are provided:

- Bring your student ID card as a proof of identity
  - Late arrivals will not be allowed to take the exam
  - This will be a closed book examination
  - Mobile phones, books, articles, earphones, or ANY other gadgets are not allowed
  - You are not allowed to wear hoods during examination
  - Calculators are allowed but you CANNOT use them on your mobile phone; only CityU approved calculators are allowed
- o [https://www.cityu.edu.hk/arro/exam/exam\\_main.htm](https://www.cityu.edu.hk/arro/exam/exam_main.htm)
- o [https://www.cityu.edu.hk/arro/files/file/hk/exam/List%20of%20Approved%20Calculators\\_2021.pdf](https://www.cityu.edu.hk/arro/files/file/hk/exam/List%20of%20Approved%20Calculators_2021.pdf)
- Be reminded to manage your time carefully and to take responsibility for your examination environment
  - Please make sure to check your network connection. You must log out of CANVAS before leaving the room.
  - You should arrive at least 15 minutes before the examination begins as per the BVM examination policies

Honesty pledge:

The Staff Guidelines for the Preparation of Final Examinations Online by City University of Hong Kong requests students to accept and acknowledge the honesty pledge. By taking this upcoming exam, you reaffirm the honesty pledge below and understand that violations may lead to penalties.

"I pledge that the answers in this examination are my own and that I will not seek or obtain an unfair advantage in producing these answers. Specifically,

- ❖ I will not use or attempt to use any unauthorized materials, or any study aids including course material in any form;
- ❖ I will not plagiarize from any source;
- ❖ I will not communicate or attempt to communicate with any other person during the examination;
- ❖ Neither will I give or attempt to give assistance to another student taking the examination; and
- ❖ I will use only explicitly approved electronic device(s) to complete this examination.

I understand that any act of academic dishonesty can lead to disciplinary action.

I pledge to follow the Rules on Academic Honesty and understand that violations may lead to severe penalties."

### **Assessment Rubrics (AR)**

#### **Assessment Task**

Quizzes, Practical Assessments and Examinations

#### **Criterion**

Student can integrate the clinical sciences of medicine, surgery, anaesthesiology, radiology, and theriogenology with systems pathology and relevant aspects of applied pharmacology to establish a cognitive framework applicable to particular disease situations.

#### **Excellent (A+, A, A-)**

Excellent in understanding and ability to develop and explain differential diagnoses, definitive diagnoses, treatment options, and treatment plans.

#### **Good (B+, B, B-)**

Good in understanding and ability to develop and explain differential diagnoses, definitive diagnoses, treatment options, and treatment plans.

#### **Fair (C+, C, C-)**

Has basic understanding and ability to develop and explain differential diagnoses, definitive diagnoses, treatment options, and treatment plans.

#### **Failure (F)**

Weak understanding and ability to develop and explain differential diagnoses, definitive diagnoses, treatment options, and treatment plans.

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### **Additional Information for AR**

#### Mark Range

The following is the mark range for each letter grade that must be used for assessment of any examinations or coursework of BVM courses (VM- and GE-coded) offered by PH and VCS.

A+:  $\geq 85\%$

A: 80-84.99%

A-: 75-79.99%

B+: 70-74.99%

B: 65-69.99%

B-: 60-64.99%

C+: 55-59.99%

C: 50-54.99%

F: <50%

## **Part III Other Information**

### **Keyword Syllabus**

Animal Health

Disease

Pathology

Veterinary Pharmacology

Surgery

Soft Tissue

Musculoskeletal

Radiology

Therapy

## Reading List

### Compulsory Readings

Title	
1	All of the material that students are expected to know is presented in the lectures and any notes provided to the students by the lecturer, and in most cases, those notes are the most helpful study tool as the faculty have synthesized and expanded upon information contained in multiple textbooks, and integrated their years of clinical experience, to create these notes for students.

### Additional Readings

Title	
1	This textbook is meant to supplement the information presented in lecture and are best reviewed after lecture on an as-needed basis. We do not recommend that students read any of these texts prior to lecture due to the sheer volume of information.
2	Small Animal Surgery, 5th edition, Theresa Fossum