



VINT 580

Rotation Descriptions

WCVM Class of 2023

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Western College of Veterinary Medicine VINT 580 ROTATION DATES 2022-2023

Weeks Dates S1 - 2April 25, 2022 May 8, 2022 S3 – 4 May 9, 2022 May 23, 2022 S5 – 6 May 24, 2022 June 5, 2022 S7 – 8 June 6, 2022 June 19, 2022 S9 – 10 June 20, 2022 July 3, 2022 S11 – 12 July 4, 2022 July 17, 2022 S13 - 14 July 18, 2022 August 1, 2022 S15 – 16 August 2, 2022 August 14, 2022 S17 – 18 August 15, 2022 August 28, 2022 1 - 2August 29, 2022 September 11, 2022 _ 3 – 4 September 12, 2022 – September 25, 2022 5 - 6September 26, 2022 – October 10, 2022 7 – 8 October 11, 2022 October 23, 2022 _ November 6, 2022 9 - 10October 24, 2022 _ 11 – 12 November 7, 2022 November 20, 2022 _ 13 - 14November 21, 2022 – December 4, 2022 15 - 16December 5, 2022 December 18, 2022 _ Holiday December 19, 2022 -January 2, 2023 17 – 18 January 3, 2023 January 15, 2023 _ 19 – 20 January 16, 2023 _ January 29, 2023 21 - 22January 30, 2023 February 12, 2023 _ 23 – 24 February 13, 2023 February 24 (6PM), 2023 _ Midterm Break February 25, 2023 February 27, 2023 _ 25 - 26February 28, 2023 March 12, 2023 27 – 28 March 13, 2023 March 26, 2023 _ 29 - 30March 27, 2023 April 9, 2023 _ 31 – 32 April 23, 2023 April 10, 2023 _

All 4th Year Clinical Rotations begin Monday's at 8:00 a.m.

Students, who are on-call or have patients in the hospital, are responsible to be on service until Monday at 8:00 a.m. to end their rotation

Statutory Holidays are treated as a Saturday or Sunday during the 4th Year of the DVM Program. When a Holiday falls at the beginning of a rotation, the rotation will begin on Tuesday 8:00 a.m.

Agwest Veterinary Group

ROTATION CODE:	AGW		
INSTRUCTORS:	Dr. L. Jeffery (Rotation Coordinator) and Drs. B. Fawcett, S. Chiasson, L. McCrea, and K. Crocker		
DURATION:	2 weeks		
TIMING:	pre-draft application procedure		
STUDENT NUMBERS:	1 per rotation		
DESCRIPTIVE:	Agwest Veterinary Group is a multi-veterinarian large animal practice located in Abbotsford, BC, with a satellite location in Duncan, BC. Our two areas of focus are high-quality and progressive dairy and equine medicine. We also service a limited number of small ruminant and camelid clients. We take pride in our preventative and collaborative approach to medicine and wish to share this attitude with visiting students.		
	Students taking the Agwest rotation will be able to tailor their experience to their interests (dairy, equine, or mixed) and can expect to participate in a wide array of medical and surgical procedures utilizing state-of-the-art equipment and techniques. The student may elect to spend the two-week rotation solely in equine or bovine practice, or spend one week of the rotation with each service. Please note that we are only offering rotations at our Abbotsford location at this time.		
	Our equine practice is comprised of sport horses, recreational horses, and broodmares. We employ digital radiography and ultrasonography in addition to videoendoscopy (including gastroscopy) as imaging modalities, and provide sports medicine treatments such as extracorporeal shockwave therapy (ESWT) and regenerative medicine (Pro-Stride ACS, platelet-rich plasma, and stem cell therapy). We also integrate the inertial sensor-based lameness measurement system, the Equinosis Lameness Locator, into our sports medicine diagnostic process. Our equine veterinarians see a variety of patients including dental, lameness, reproductive, internal medicine, and minor surgical cases. We provide both hospital and ambulatory services to our clients. Our dairy practice services farms ranging from 50 to 650 cow herds. We take a proactive, collaborative approach to herd consulting, working with industry professionals including financial consultants, hoof trimmers and nutritionists. We place a strong emphasis on client education. Our herd health management programs incorporate data/records analysis (ie. Dairy Comp), ultrasound-based		

reproduction, production evaluation, udder health/ parlour evaluation, cow comfort/lameness evaluation, nutrition evaluation, and facility evaluation. Agwest offers a complete embryo transfer (ET) service including a mobile laboratory as well as in-vitro fertilization (IVF) through collaboration with Boviteq West. Our medicine and surgery practice includes obstetrics, digital ultrasound and radiography, acupuncture and Aqua Cow Rise System (float tank).

Students will participate in examining and treating patients both on the road and in clinic. The amount of hands-on experience provided will be based on preparedness for the given procedure. Students are encouraged to prepare ahead of time for scheduled calls and to have a basic understanding of common emergencies seen in equine and/or bovine practice in order to get the best educational experience at Agwest.

Evaluation is based on attitude, preparedness, knowledge, and clinical proficiency. Depending on caseload, the student may be assigned to a project, and this will contribute to his or her grade.

Housing and transportation is not provided, but Agwest can help the student make these arrangements. To apply for this rotation, please send a cover letter and curriculum vitae to office@agwestvet.com.

Alberta Provincial Government (Edmonton)

ROTATION CODE:	ABL						
INSTRUCTORS:	Dr. Heather Vanesch						
DURATION:	2 weeks						
TIMING:	23 – 24 February 13, 2023 – February 24, 2023						
STUDENT NUMBERS:	2 students per rotation						
DESCRIPTIVE:	Animal Health and Assurance Branch is responsible for developing and maintaining legislation and policies relating to livestock health and food safety in the province.						
	The students will be familiarized with the role of veterinarians in provincial government as it relates to the development of legislation and policy related to animal health, welfare, food safety and surveillance activities conducted by technical team to mitigate risks to international and local and international market access for livestock and livestock products.						
	 Expected Outcomes: Become familiarized with the role of provincial government veterinarians in animal health surveillance, animal welfare, food safety and disease investigations in livestock and poultry. Work with veterinary epidemiologists to develop risk based analysis and decisions for infectious and toxic agents to animal health and food safety. Work with veterinary pathologists to conduct postmortems and provide pathologic diagnosis in livestock and poultry. Engage in disease investigations in livestock and poultry diseases with our surveillance veterinarians and toxicologists. Participate in the collection of appropriate diagnostic samples and understand the relevant diagnostic tests for disease investigation. Become familiar with Federal and Provincial regulations as they relate to livestock health and food safety. 						
	<u>Evaluation:</u> Students will be expected to research and prepare a 10-15 minute case presentation during their last week from a case that will be presented to them during the course of the rotation. This will be part of their evaluation process in addition to daily participation and evaluation of clinical and diagnostic skills.						
	<u>Practice Description/Caseload</u> : The Animal Health and Assurance Branch is integrated by five sections: Chief Provincial Veterinarian, Livestock Traceability,						

Animal Health, Inspections and Investigations and Animal Welfare.

Student's time will generally be spent in the Animal Health Section which is staffed by technical experts in pathology, toxicology, theriogenology, epidemiology and programs.

Our team has worked on *Salmonella Enteriditis* and ILT in poultry and *Salmonella Typhimurium* and *S. Dublin* outbreaks and lead toxicity cases in cattle. Other disease investigations included different cases of abortions in cattle, non-quota-non commercial backyard poultry flocks, sheep and goats and neonatal mortalities in cattle.

We have an ongoing real-time cattle and swine veterinary practice surveillance.

We have ongoing research in food-born pathogens in poultry at the farm and at the processor level. We also support cross departmental activities such as Fish and Wildlife of Alberta Environment and Parks, and provincial meat inspection services.

The Branch has three post-mortem facilities located around the province with a pathologist in Edmonton and veterinary technologists on staff in Airdrie and Edmonton, Fairview and Lethbridge.

The Branch is also very active in BSE, Chronic Wasting Disease and Scrapie surveillance in cattle, farmed and wild cervids, and sheep and goats.

CONTACT:Dr. Hernan Ortegon (hernan.ortegon@gov.ab.ca) tel. 780-644-2148Dr. Madhu Ravi (madhu.ravi@gov.ab.ca) tel. 780-427-8285

Anesthesia

ROTATION CODE:	ANE				
INSTRUCTORS:	Drs. B. Ambrose, S. Beazley, L. Gomez				
DURATION:	4 weeks				
TIMING:	1 - 4August 29, 2022-September 25, 20225 - 8September 26, 2022-October 23, 20229 - 12October 24, 2022-November 20, 202213 - 16November 21, 2022-December 18, 202217 - 20January 3, 2023-January 29, 202321 - 24January 30, 2023-February 24 (6PM), 202325 - 28February 28, 2023-March 26, 202329 - 32March 27, 2023-April 23, 2023				
STUDENT NUMBERS:	9-11 students per rotation				
DESCRIPTIVE:					

Afternoon topic rounds will be held depending on the clinical service. Students are expected to prepare for and participate in topic rounds.

Evaluation: Students evaluation will be based on the following factors:

- Clinical performance
 - Intellectual participation (rounds)
- DEPA (25%)
- Written Quiz (15%)

Animal Medical Centre North – Grand Prairie, AB

ROTATION CODE:	AMCN				
INSTRUCTOR:					
DURATION:	2 weeks				
TIMING:	1-2 15-16	August 29, 2022 December 5, 2022	-	September 11, 2022 December 18, 2022	
STUDENT NUMBERS:	1 students per rotation				
DESCRIPTIVE:	Animal Medical Centre North is a general practice with a small animal and exotics case load located in Grand Prairie, AB. Students will assist doctors during routine care appointments, emergency and surgeries.				
MISCELLANEOUS:	Attire: Extern's own surgical scrubs Housing: Not provided. Travel: Students are expected to provide their own means to travel to the practice.				

Assiniboia Veterinary Clinic

ROTATION CODE:	ASVC			
INSTRUCTOR:	Dr. Kelly Lightfoot			
DURATION:	2 weeks			
TIMING:	Weeks 27-28 (March 13-26, 2023) Weeks 29-30 (March 27-April 9, 2023) Weeks 31-32 (April 10-23, 2023)			
STUDENT NUMBERS:	One student per rotation			
DESCRIPTIVE:	Students will accompany a vet throughout their rotation leading or assisting in all cases seen by the veterinarian. Students will be expected to take call 100% of the after hours emergencies during their rotation, because you may be exposed to more unique cases in the evening. During the spring, there is a great deal of large animal caseload including:			
	 Bovine obstetrics (malpresentations, caesareans, vaginal prolapses, uterine prolapses) Semen testing Bovine neonatal care 			
	There will also be some small animal clinical cases, and others typical of a mixed animal practice.			

Housing: will be provided at one of the veterinarians residents.

BC Provincial Lab (Abbotsford)

ROTATION CODE:	BCL		
INSTRUCTORS:	Drs. A. Britton, S. Raverty, V. Bowes, C. Himsworth, T. Redford and G. McGregor		
DURATION:	2 weeks		
TIMING:	Any 2 week block during the year.		
STUDENT NUMBERS:	1-2 students per rotation		
DESCRIPTIVE:	Do you want to have an exciting, hands-on, real-world experience? Do you think you will use a diagnostic laboratory in your future veterinary career? If so, then come spend some time with our team of board-certified pathologists. The rotation is devoted to the post-mortem examination of a range of animal species submitted through The Animal Health Centre (AHC), a high-volume, full-service veterinary diagnostic laboratory located in Abbotsford, British Columbia. Students gain experience in developing a diagnostic plan, conducting a complete necropsy, collecting samples, identifying and interpreting gross and microscopic pathology, using laboratory tests (e.g., bacteriology, virology, PCR, serology) to investigate differential diagnoses, synthesizing and interpreting information to make a diagnosis, documentation of case findings, and communicating with different types of clients and stakeholders. This experience will help you to develop your skills as a diagnostician no matter what field of veterinary medicine you pursue. We encourage students to take responsibility for cases, which fosters an effective learning environment. Plus, where else could you handle a cow, cat, chicken, cougar, and capybara all in single day!		

Students must provide their own footwear (rubber boots).

Students may indicate interest for specialty rotations prior to the draft in Poultry Health or Fish Health dependant on the lab's availability. Please contact the lab between the draft release and the change period to discuss timing.

** It is recommended that students taking this rotation have already completed the core Diagnostic Pathology rotation.

* A student may take this rotation only once

CONTACTS: Dr. Glenna McGregor (<u>glenna.mcgregor@gov.bc.ca</u>)

BC SPCA Animal Welfare

ROTATION CODE:	BCA			
INSTRUCTORS:	Dr. Emilia Gordon, DABVP-Shelter Medicine Practice (Senior Manager, Animal Health); Mandi Idle, RVT (Animal Health Coordinator)			
DURATION:	2 weeks			
TIMING:	Weeks 17-18	January 3 rd - January 15 th , 2023		
STUDENT NUMBERS:	6 students per rotatio	on		
DESCRIPTIVE:	For senior students, with preference given to students from B.C. or planning to practice in B.C. Students participating in this virtual rotation will gain an understanding of shelter medicine; content is also highly relevant to companion animal general practice. Materials will be largely case-based and the rotation will include lectures, discussion, directed reading, and student reflection. Most content will be delivered live, but up to 20% may be pre-recorded. Student assessment will be based on participation (in discussion and case- based population health scenarios) and completion of an external shelter behaviour course online (8 hours). Note: this rotation generally runs from 9:00 am – 4:30 pm weekdays and is offered in Pacific time. Most content is from the primary instructors, but several guest lecturers with specific expertise are part of the schedule.			
	 <u>Students completing this rotation will:</u> 1. Design biosecurity and population management plans for common shelter infectious diseases 2. Conduct outbreak investigations and outbreak response 3. Apply and interpret diagnostic tests for common infectious diseases in various shelter resource scenarios 4. Apply clinical behaviour concepts in sheltered animals 5. Learn basic principles of veterinary forensics and animal welfare law enforcement 6. Understand animal welfare epidemiology- the flow of animals in and out of shelters in North America 7. Discuss community medicine principles including incremental car and One Health Components: 1. SHELTER MEDICINE (25 hrs/week): a. Live, case-based lectures and discussion: shelter intake and 			

management practices, infectious diseases relevant in Western Canada, population management and biosecurity, outbreak investigations, diagnostic tests (applications, cost, limitations), zoonotic disease recognition and risk management, veterinary forensics and animal welfare law enforcement, judicious use of shelter resources, animal welfare epidemiology, community medicine/access to care, and future directions (equity in sheltering and enforcement, community-based programming).

- b. Directed reading of primary literature and paper discussions regarding above topics (time will be allotted for reading during the day)
- c. Student case work (small groups): case-based scenarios
- 2. SHELTER BEHAVIOUR & WELFARE (6-8 hours/week):
 - a. Shelter behaviour instruction: mix of pre-recorded lectures and live case-based discussion
 - b. Fear Free Shelters Online Course: shelter-specific asynchronous content about the management of the emotional health of cats and dogs in shelter confinement (free enrolment; time allotted during course)
 - c. OTHER (2-4 hr/week): BC SPCA program meetings (e.g. Outreach, Government Relations, Wildlife, Cruelty Investigations), other relevant content as available
- <u>Note</u>: Students interested in doing an unofficial externship on their own time (e.g. summer) may contact Dr. Gordon directly (suspended as of March 2020 with no restart date).

CONTACTS:

Dr. Emilia Gordon (604) 506-2214 egordon@spca.bc.ca

Ms. Mandi Idle (236)333-9602 midle@spca.bc.ca

Beausejour Animal Hospital – External Diary Rotation

INSTRUCTORS:	Drs. C. Leppelmann , E. Maguet, K. Swirsky, A. Pylypjuk, and C. Doyle
DURATION:	2 weeks
TIMING:	Pre-draft application procedure (No summer rotations available)
STUDENT NUMBERS:	1 per rotation to allow the most hands on experience
DESCRIPTIVE:	Beausejour Animal Hospital is a large independently owned mixed animal practice located in Beausejour, MB. We are a 50% large animal, and 50% small animal clinic. With the proportion of large animal being made up of approximately 80% dairy, 10% beef, 5% equine and a small percentage of small ruminant, camelid, swine, and poultry patients. Students will be primarily focusing on dairy while at our clinic despite us being a mixed animal practice.
	Our dairy practice services farms ranging from 40 to 1350 cow herds. We aim to help dairy producers maximize cow health and comfort by looking at herd production data and health indicators. Total Dairy Health Services include ultrasound based reproductive examinations, data/record analysis (i.e. Dairy Comp), production evaluation, udder health evaluation with in house milk culturing, parlour evaluation, cow comfort/lameness evaluation, facility evaluation, embryo transfer, protocol development, and employee training.
	Students will participate in examining and treating patients both on the road and in clinic. The amount of hands-on experience provided during surgeries/procedures will be based on preparedness for the given procedure. Students are encouraged to prepare ahead of time for scheduled calls and to have a basic understanding of common emergencies seen in bovine practice in order to get the best educational experience at Beausejour Animal Hospital.
	We have 24/7 emergency services for dairy and large animal and although we do encourage students to be available for after hours emergencies to optimize experience, it is not a requirement of the rotation.
	Evaluation is based on attitude, preparedness, knowledge, and clinical proficiency. Depending on caseload, the student may be assigned to a project, and this will contribute to his or her grade.
	Housing and transportation is not provided, but Beausejour Animal Hospital can help find housing/transportation options if needed.

Britannia Kingsland Veterinary Clinic – Calgary, AB

ROTATION CODE:	BRIT			
INSTRUCTOR:				
DURATION:	2 weeks			
TIMING:	19 – 20 27 – 28	January 16, 2023 March 13, 2023	-	January 29, 2023 March 26, 2023
STUDENT NUMBERS:	1 students per rotation			
DESCRIPTIVE:	Britannia Kingsland Veterinary Clinic is a small animal clinic with an exotics case load located in Calgary, AB. Students will be assisting doctors during routine appointments and surgeries of companion animals, pocket pets and exotics. There is limited access to avian mentorship at this time.			
		Monday - Friday 8am - ngs. No Sundays.	6 pm, o	pen Saturdays 9 am - 2
MISCELLANEOUS:	Housing: No Travel: Stude the practice.	n's own surgical scrubs a t provided. There are se ents are expected to prov The practice is on a main a an option within Calgar	veral hot ide their n bus rou	tels in the area. own means to travel to

Calgary Zoo Animal Health Center – Zoo Medicine

ROTATION CODE:	CALZ
INSTRUCTORS:	Dr. A. Pastor
DURATION:	4 week rotation
TIMING:	pre-draft application procedure
	Weeks 11-14 November 7, 2022 – December 4, 2022 Weeks 29-32 March 27, 2023 – April 23, 2023
STUDENT NUMBERS:	1 student per rotation
DESCRIPTIVE:	This rotation is designed to familiarize students with the clinical care of zoological species, and expose them to the multi-faceted aspects of zoological medicine. Externs will be exposed to, and participate in, the various aspects of zoological medicine including general medicine and surgery (including clinical techniques and diagnostics), restraint of various species, preventive health care programs, quarantine procedures, nutrition and husbandry, behavioural husbandry programs, pathology, endangered species breeding programs, and daily interactions with animal care staff.
	 Expected Outcomes: Identify the essential duties of a zoo veterinarian. Develop an understanding of the roles of the veterinary team, curators, animal care staff, and conservation biologists at the zoo in the management strategies for captive wildlife. Become familiarized with the role of zoo veterinarians in conservation efforts and the potential areas of research that will bridge knowledge gaps between free ranging and captive wildlife species. Develop an understanding of the role that accredited zoological parks and aquariums play in modern society describe how they contribute to the management of endangered species. Understand the public and ethical issues facing zoos and be aware of the animal welfare issues involved in zoo veterinary medicine. Develop an understanding of zoo terminology. Identify the basic taxonomy of zoological species. Become familiar with preventive medicine, emergency care, quarantine, nutrition, husbandry and environmental needs, training, enrichment, exhibit design, captive breeding or contraception, shipping regulations, and research with zoo animals. Develop an understanding of the medical and surgical principles of zoo practice and the limitations associated with the capture, restraint (chemical and manual), diagnosis and treatment of medical conditions in zoo animals.

- 10. Become familiar with physical and chemical restraint techniques, anesthetic agents commonly used in zoo medicine, indications for their use, and the delivery immobilization equipment (pole syringe, blow pipes, firearms).
- 11. Be familiar with transport, movement, capture, and anesthesia methods to reduce risk and stress related morbidity and mortality in zoological species.
- 12. Expand upon and apply veterinary medical knowledge in the management and treatment of zoo/exotic animal species.
- 13. Recognize anatomical and physiological differences between animal(s) and common domestic species, and be able to carry out a species appropriate physical examination.
- 14. Participate in the collection of appropriate diagnostic samples and understand the relevant diagnostic tests for disease investigation.
- 15. Administer oral medications, and perform intravenous, intramuscular and subcutaneous injections in various zoological taxa.
- 16. Learn to perform a necropsy with appropriate sample collection on a deceased wildlife species.
- 17. Identify biosecurity and safety issues in a zoological setting including zoonotic disease.
- 18. Become familiar with the professional organizations and resources available to the zoo veterinarians.
- 19. Be familiar with Federal and Provincial regulations as they relate to zoo populations.

Evaluation:

Students will be expected to research and prepare a 10-15 minute case presentation during their last week from a case they have seen during their rotation. This will be part of their evaluation process in addition to daily participation and evaluation of clinical and diagnostic skills.

Practice Description/Caseload:

The Calgary Zoo is home to approximately 1000 animals of 180 different species. The zoo actively participates in numerous Species Survival Programs as well as captive management programs for Canada's most endangered mammal- the Vancouver Island Marmot, and most endangered bird- the Whooping Crane. The Calgary Zoo Animal Health Centre is an ABVMA accredited veterinary hospital which provides the veterinary care for all of the animals at the Calgary Zoo and its associated Wildlife Conservation Centre (WCC). The hospital includes a central treatment room, a large surgical suite, radiology and imaging suite, necropsy facilities, clinical laboratory, quarantine facilities, animal holding areas, and a meeting room with a reference library. Ambulatory services are provided to the zoo and the WCC.

The Animal Health Centre is staffed by three veterinarians, three registered animal health technologists, a veterinary intern and two zookeepers. The

caseload is approximately 900 patients a year. In addition, occasional wildlife cases are triaged.

Contact: Dr. Adriana Pastor (<u>adrianap@calgaryzoo.com</u>) or (403) 355-6608

Canada West Veterinary Specialists – Emergency and Critical Care

ROTATION CODE:	CWC
INSTRUCTORS:	 Dr. Kirsty Royle, MA VetMB, Dip. ACVECC Dr. Carsten Bandt, DVM, Dip. ACVECC Dr. Teresa Cheng, DVM, MSc, Dip. ACVECC Dr. Trevor Enberg, DVM, Dip. ACVECC Dr. Chris Drolet, DVM Seven highly trained hospitalists (non-specialist emergency doctors), 2 residents and 2-3 interns also complement their team along with a large team of ERCC dedicated veterinary technicians, 2 of whom are Veterinary Technician Specialists (VTS) in Emergency and Critical Care.

DURATION:

2 weeks

TIMING:

Weeks	Dates		
S1 – 2	April 25, 2022	-	May 8, 2022
1-2	August 29, 2022	_	September 11, 2022
3-4	September 12, 2022	_	September 25, 2022
5-6	September 26, 2022	_	October 10, 2022
7 - 8	October 11, 2022	_	October 23, 2022
9 - 10	October 24, 2022	_	November 6, 2022
11 – 12	November 7, 2022	_	November 20, 2022
13 – 14	November 21, 2022	_	December 4, 2022
15 – 16	December 5, 2022	_	December 18, 2022
17 – 18	January 3, 2023	_	January 15, 2023
19 – 20	January 16, 2023	_	January 29, 2023
21 – 22	January 30, 2023	_	February 12, 2023
23 - 24	February 13, 2023	_	February 24 (6PM), '23
25 - 26	February 28, 2023	-	March 12, 2023
27 - 28	March 13, 2023	_	March 26, 2023
29 - 30	March 27, 2023	_	April 9, 2023
31 – 32	April 10, 2023	_	April 23, 2023

STUDENT NUMBERS:

1 student per rotation

DESCRIPTIVE: **Objectives** - To provide the 4th year student with the basic skills and understanding in the management of commonly encountered emergency situations. To help build confidence in the appropriate approach to emergency cases. To introduce the complexities involved in the management of critically ill patients. To discuss the pathophysiology behind the diseases presented in the emergency and critically ill setting.

Specific goals to complete (case dependent):

Techniques for cardiopulmonary resuscitation (CPR)

- > Approach to thoracocentesis (diagnostic and therapeutic)
- > Approach to abdominocentesis (diagnostic and therapeutic)
- Approach to chest tube placement
- Approach to pericardiocentesis
- Fluid therapy in emergency and critical care
 - Cystalloids
 Synthetic colloids
 Natural colloids
- Pain control
- > Nutritional support with emphasis on tube placement techniques
- Practical management of critical patients (ie. application of constant rate infusions, oxygen delivery, etc.)

We will provide an open-book quiz in which the student will be expected to complete by the Monday of the second week of rotation. This will be used towards the grading for the elective week. Students will also be expected to present some cases during daily cage side rounds towards the end of their rotation.

Expectations -

Use of any social media and cellular phones is not permitted during rotation hours.

Work days: to be determined by the caseload, typically Monday- Friday, 5 days a week

Work hours: to be determined by the caseload, day begins at 8 am and ends after evening rounds (approximately 6pm but variable depending on case load).

Please note that in ERCC weeks, STAT holidays are normal working days. 10 days working must be completed for a two-week rotation. If a student misses a day it must be made up on the weekend. Students are encouraged to spend time with the criticalists, residents, interns and ER Doctors to gain the most from their time.

We encourage the students to request any additional topics or specific learning objectives not included in the outline above.

Miscellaneous

<u>Attire:</u> Extern's own surgical scrubs or lab coat <u>Remuneration:</u> None <u>Housing:</u> Not provided <u>Travel:</u> Students are expected to provide their own means to come to Vancouver

* A student may take this rotation only once.

CONTACTS: Amanda Serafin (aserafin@canadawestvets.com)

Canada West Veterinary Specialists – Neurology

ROTATION CODE:	CWN			
INSTRUCTOR:	Dr. Laura Ba	arp, Dip. ACVS, ACVIN arnard, Dip. ACVIM Lampe, Dip. ACVIM	1	
DURATION:	2 weeks			
TIMING:				
	S3 - 4	May 9, 2022	-	May 23, 2022
	S7 - 8	June 6, 2022	-	June 19, 2022
	S15 – 16	August 2, 2022	-	August 14, 2022
	S17 – 18	August 15, 2022	-	August 28, 2022
	1 - 2	August 29, 2022	_	September 11, 2022
	3-4	September 12, 2022	_	September 25, 2022
	5-6	September 26, 2022	_	October 10, 2022
	7 - 8	October 11, 2022	_	October 23, 2022
	9 - 10	October 24, 2022	_	November 6, 2022
	11 - 12	November 7, 2022	_	November 20, 2022
	13 – 14	November 21, 2022	_	December 4, 2022
	21 - 22	January 30, 2023	_	February 12, 2023
	23 - 24	February 13, 2023	_	February 24 (6PM), '23
	25 - 26	February 28, 2023	-	March 12, 2023
	27 - 28	March 13, 2023	_	March 26, 2023
	29 - 30	March 27, 2023	_	April 9, 2023
	31 – 32	April 10, 2023	_	April 23, 2023
STUDENT NUMBERS:	1 student per	r rotation		
DESCRIPTIVE:	neurologic e they can diff peripheral ve a lesion to o diagnostic a where to fin- understand t not be enoug accurately th	erentiate forebrain versu estibular disease; and tha ne of the four regions of	calization s brainst t they un spinal co seizures these su neurolo v to exar akes a no	n in simple terms, i.e. that tem disease; central versus inderstand localization of ord. Also to understand and for paresis and know bjects. Finally to gy will almost certainly nine and localize a dog eurology resident 6-
MISCELLANEOUS:	Attire: Exte	rn's own surgical scrubs	or lab c	oat
	Remuneratio	on: None		

Housing: Not provided

<u>Travel:</u> Students are expected to provide their own means to come to Vancouver

* A student may take this rotation only once.

CONTACTS:

Amanda Serafin (aserafin@canadawestvets.com)

Canada West Veterinary Specialists – Surgery

ROTATION CODE:	CWS			
INSTRUCTOR:	Surgeons: Dr. Michael	King		
DURATION:	2 weeks			
TIMING:				
	S7 - 8 S17 - 18 1 - 2 3 - 4	June 6, 2022 August 15, 2022 August 29, 2022 September 12, 2022	- - -	June 19, 2022 August 28, 2022 September 11, 2022 September 25, 2022
	5-6 7-8	September 26, 2022 October 11, 2022	_	October 10, 2022 October 23, 2022
	9 – 10 11 – 12 13 – 14	October 24, 2022 November 7, 2022 November 21, 2022	_	November 6, 2022 November 20, 2022 December 4, 2022
	15 - 16 17 - 18	December 5, 2022 January 3, 2023	_	December 18, 2022 January 15, 2023
	19 - 20 21 - 22	January 16, 2023 January 30, 2023	_	January 29, 2023 February 12, 2023
	23 – 24 25 – 26	February 13, 2023 February 28, 2023	-	February 24 (6PM), '23 March 12, 2023
	27 – 28 29 – 30 31 – 32	March 13, 2023 March 27, 2023 April 10, 2023	_	March 26, 2023 April 9, 2023 April 23, 2023
STUDENT NUMBERS:	1 student per			1
DECODIDTIVE.	Objectives			

DESCRIPTIVE:

Objective:

To increase the 4th year students understanding of common surgical conditions, including pathophysiology, diagnostics, peri-operative care, anesthetic management, and surgical techniques.

Specific Goals:

- Approach to the orthopedic examination
- Development of appropriate anesthetic protocols
- Development of appropriate post-operative analgesic regimen
- Application of appropriate diagnostic techniques in workup of
- surgical cases
- Arthrocentesis
- Understanding of different suture materials/patterns, and their appropriate application.

Expectations:

	Work days: Monday-Friday Work Hours: Determined by caseload (days will begin at 8:30am) Use of social media is not permitted during rotation hours.
	Students are expected to assess all surgical inpatients initially each morning of the rotation, to be able to discuss the case with the Attending Surgeon regarding treatment plans.
	Each student is expected to prepare for any scheduled surgery they plan to observe, by reading appropriate texts and journal articles pertaining to the procedure.
	Students will be expected to scrub in to assist in surgical procedures at the Surgeons discretion.
	Students will be able to be present in Surgical consultations with clients to observe, but will not have case responsibility, or direct communication with clients, other than at the discretion of the Attending Surgeon.
MISCELLANEOUS:	<u>Attire:</u> Extern's own surgical scrubs or lab coat <u>Remuneration:</u> None <u>Housing:</u> Not provided <u>Travel:</u> Students are expected to provide their own means to come to Vancouver
* A student may take this r	otation only once.

CONTACTS: Amanda Serafin (<u>aserafin@canadawestvets.com</u>)

Canadian Challenge Sled Dog Race

ROTATION CODE:	SLED
INSTRUCTOR:	Dr. R. Pinto
DURATION:	2 weeks
TIMING:	Weeks 23 – 24 February 13, 2021 – February 24, 2022 (6 PM)
	**Rotation includes a full day on a STAT holiday. It also includes the evening of Feb 24 th and a full day on Feb 25 th , which are part of the Midterm Break. In compensation for this and due the large number of hours worked during the week of the race, the rotation will begin on Wednesday Feb 15 th . Organization meetings prior to the race will be required and will be scheduled based on students' availability.
STUDENT NUMBERS:	2-4 students per rotation
DESCRIPTIVE:	In the first week of the rotation, students will learn about sled dog medicine, including examination of sled dogs and common health conditions. They will be required to research and briefly present a topic related to sled dog health. An excursion to a sled dog kennel will be included.
	In the second week of the rotation, students will participate in the evaluation and care of the sled dogs running in the Canadian Challenge Sled dog race. Due to time constraints in a race, this may sometimes consist of observing race veterinarians and recording findings. When time permits, students will have the opportunity to examine dogs. They will also participate in any required treatment of dogs in typical field conditions.
	Students will need to be prepared for long days outside in extremely cold weather. Good quality winter gear is required. This rotation will require students to be in attendance at the race for its entire duration. Care is provided to dogs 24 hours per day throughout the race. Sleep will be limited at times and may consist of short naps in vehicles at some check points. During the race, travel will occur through remote northern communities as well as through wilderness checkpoints.
	**Please note that students with dietary restrictions may need to ensure that they provide all their own meals as the majority of meals in the past have consisted of meat and contained gluten.
	**Students are required to have a current and valid drivers license.
	**A remote clinical practice rotation prior to this rotation is recommended, but not required

Canine Rehabilitation

ROTATION CODE:	CRH			
INSTRUCTORS:	Dr. R Pinto, Dr. K. Penney			
DURATION:	2 weeks			
TIMING:	S7-S8 11 –12 19 – 20	June 6, 2022 November 7, 2022 January 16, 2023	- -	June 19, 2022 November 20, 2022 January 29, 2023
STUDENT NUMBERS:	2-4 students per rotation			
DESCRIPTIVE:	Daily activities will consist of topic rounds as well as participation in the treatment of clinical rehabilitation cases. Students will be required to present a relevant scientific article of their choice during the first week and a comprehensive rehabilitation plan they have designed during the second week.			
	Rotation hours are generally from 8:00 am to 5:00 pm Monday to Friday, however, some patient care for in-hospital patients may be required evenings and weekends. One day each week, students will be required to stay late for appointments. There will be no on-call duties.			pital patients may be ch week, students will be
	Background reading from the textbook Canine Rehabilitation and Physical Therapy (2 nd edition) by Darryl Millis MS DVM, David Levine PhD PT, and Robert A. Taylor DVM MS is required before the start of the rotation. This textbook is on reserve in the library. A review of canine applied anatomy, particularly bones and muscles is also required. Grading will be based on knowledge, rounds participation, skill in rehabilitation techniques, patient care, attitude and the presentation of a scientific article and treatment plan.			
	 resp to be invoitissu to petreat to be pass to un thera to un 	living post-operative orthous erform initial evaluations truent plans with the guida ecome competent with ba ive range of motion, stret nderstand the use of moda	on clini ance of sic tech teching a alities su of thera	n to rehabilitation of cases , neurologic cases and soft ical cases and formulate a rehabilitation clinician niques such as massage, nd rhythmic stabilization uch as heat, ice, E-stim and low-level laser peutic exercises such as

• to become familiar with some of the scientific literature on canine rehabilitation

On completion of the rotation, students should be familiar with many of the concepts in rehabilitation, however, it is still recommended that those interested in practicing rehabilitation medicine take further training and become certified practitioners.

C.A.R.E. Centre Animal Hospital ER Rotation

INSTRUCTORS:	Dr. J. Roycroft	
DURATION:	2 weeks	
TIMING:	Weeks 5-6 Weeks 17-18 Weeks 21-22	September 26, 2022 - October 10, 2022 January 3, 2023 – January 15, 2023 January 30, 2023 – February 12, 2023
STUDENT NUMBERS:	2 students per rotation	n
DESCRIPTIVE:	The rotation is designed to expose students to the management of smal animal emergency and critical care cases including the fundamentals o initial triage and stabilization. It will allow students that have an interest in emergency medicine and critical care (or small animals in general) to expand their knowledge, clinical skills and experience in these areas. The students will get primary case responsibility, dedicated time for self-learning and case discussion, and experience the dynamics of a busy ER and specialty referral centre.	
	 Recognize unstable behind urgent stabiliz Collect a relevant h individual animal or a Practice with created diagnoses. Develop a diagnose Communicate this to appropriate diagnostic diagnostic tests for di 6. Interpret clinical ex develop a plan for part 6. Understand the the 	history and perform a clinical examination of an a small group of animals. ion of problem lists and relevant differential tic plan in conjunction with the attending DVM. support staff and participate in the collection of c samples. Start to understand the relevant sease investigation. cam findings and diagnostic test results, and tient management. rapeutic options, and the rationale behind ction (eg. antimicrobials, analgesics, anesthetics,
	Details of the rotation (including caseload, personnel, polic requisites, insurance requirements, expectations, extra costs evaluation): It is expected that the majority of the rotation will focus on r emergency cases. Students will be expected to play a major management (e.g. triage, client communication, admissions, discharges, diagnostics, procedures, daily care and assessme the guidance of a C.A.R.E. practitioner. We also try to coor days with our Critical Care Service where students will get e	

managing hospitalized patients. Students who are particularly interested in a small animal internship (whether at the C.A.R.E. Centre or otherwise) are encouraged to consider this rotation.

Travel and Accommodation:

Special arrangements are not applicable. Students will be expected to arrange their own transportation to Calgary, accommodations and meals in Calgary and daily transportation to the C.A.R.E. Centre.

Evaluation: A standard evaluation provided by the WCVM will be completed by the C.A.R.E. Centre practioner(s) that the students worked with primarily and returned by the deadline provided by WCVM. Feedback will be provided to the students throughout the rotation

Hours of work and expectations for on-call:

Students on this rotation will not be working a regular 8:00 am to 5:00 pm day. Shifts for students are mostly held during the afternoon and evening (typically 3:00 pm to 1:00 am) which is when higher volume and varied patient caseload is typically presented to the hospital. The rotation is scheduled Monday to Thursday for both weeks, but students are required to pick up one extra shift of their choice in the middle weekend (Friday, Saturday or Sunday). One or two days will be planned during regular business hours (i.e. 7am-5pm) to work alongside the criticalist. Further details on shifts and rounds times are provided to the students prior to the rotation starting.

Clinical Pathology

ROTATION CODE:	CLP			
INSTRUCTORS:	Drs. R. Dickinson (coordinator), H. Burgess, M. Kerr, S. Myers, M. Meachem, L. Munasinghe and others (to be determined)			
DURATION:	2 weeks			
TIMING:	27 – 28 29 – 30 31 – 32	March 13, 2023 March 27, 2023 April 10, 2023	- - -	March 26, 2023 April 9, 2023 April 23, 2023
STUDENT NUMBERS:	3 students pe	er rotation		
PREREQUISITES:	Students who have completed VTPA 421 – Veterinary Cytology will be given priority for this course. If there are still openings will it be offered to students without VTPA 421.			
DESCRIPTIVE:	Students who complete the two week mandatory rotation in Diagnostic Pathology are eligible to take an elective two week rotation. These rotations will be available to three students per rotation who will assist the pathologist on duty.			
	Three such r	otations will be offered.		

Crossroads Veterinary Clinic – Rosslyn, ON

ROTATION CODE:	CROSS			
INSTRUCTOR:				
DURATION:	2 weeks			
TIMING:	1 – 2	August 29, 2022	-	September 11, 2022
STUDENT NUMBERS:	1 students per	rotation		
DESCRIPTIVE:	Rosslyn, Onta doctors during	eterinary Clinic is a gene ario (Thunder Bay area). g routine appointments, s e case load will be cats a	Student surgeries	ts will be assisting and emergencies. The
			-	d Saturdays 9a-2pm; On- amongst DVMs
MISCELLANEOUS:	Housing: No Travel: Stude	n's own surgical scrubs/ t provided. There are se ents are expected to prov A vehicle is needed as cl	veral hot ide their	tels in the area. own means to come to

Dairy Production Medicine

ROTATION CODE:	DAI
INSTRUCTOR:	Dr. C. Luby
DURATION:	2 weeks
TIMING:	Weeks 9 – 10 October 24, 2022 – November 6, 2022
STUDENT NUMBERS:	4 students per rotation
PREREQUISITES:	Students must be scheduled in the Ruminant Field Service during their clinical year of study.
DESCRIPTIVE:	The objective of this rotation is to provide training to students considering a career in dairy production medicine. As such, the focus will be on dairy management.
	The rotation will be a combination of seminars and practical sessions. Practical sessions will be held both at the U of S Rayner Dairy Research and Teaching Facility as well as at clients of the WCVM VMC. Material covered will include animal welfare, biosecurity, responsible use of therapeutic agents, troubleshooting rations, calf management, and reproductive management. All material will be considered in the context of the Dairy Farmers of Canada ProAction initiative.

Dentistry

	ROTATION CODE:	DEN				
	INSTRUCTOR:	Dr. C. Lowe				
	DURATION:	2 weeks				
TIM	ING:	3 - 4 7 - 8 11 - 12 15 - 16 19 - 20 21 - 22 25 - 26 29 - 30	September 12, 2022 October 11, 2022 November 7, 2022 December 5, 2022 January 16, 2023 January 30, 2023 February 28, 2023 March 27, 2023	- - - -	September 25, 2022 October 23, 2022 November 20, 2022 December 18, 2022 January 29, 2023 February 12, 2023 March 12, 2023 April 9, 2023	
	STUDENT NUMBERS:	3 students per rotation				
	DESCRIPTIVE:	the two-week	Students will be involved with all clinical dentistry cases seen during the two-week rotation, with one student being assigned as primary student on each case.			
		The objectives of this elective are to provide the student with an opportunity to enhance their clinical knowledge in dentistry and to develop their skills in performing oral examinations, communicating with clients, oral imaging and interpretation and dental surgical skills.				
		Rounds topics will be assigned to each student on the first day of the rotation. A short "client" friendly handout and informal presentation on the topic should be provided for each student and clinician. All students should be prepared on each topic as you will be asked questions regarding the topic covered.				
		Evaluations of students will be based on case management, preparation, knowledge, surgical skills, attitude, participation and rounds topics.				
		<u>Agenda</u> : Morning rounds will be held daily except for Friday (the student is expected to attend the Friday morning seminars between 8-9am) in the Purina Dental Suite; where a student is expected to present on a dental related topic. Afternoon rounds will occur during clinic (consultation and surgery days) days. Each student will perform a full oral hygiene procedure on a dog or cat during this rotation. Laboratory sessions will encompass some if not all of the following procedures; extractions, periodontal flaps, dentinal sealants, uncomplicated restorations, tape muzzles and partial pulpotomies. This is variable and is subject to change at the instructors' discretion.				
DERMATOLOGY - WCVM

ROTATION CODE:	DERMINT				
INSTRUCTOR:	Dr. A. Foster				
DURATION:	2 weeks				
TIMING:	3 - 4 7 - 8 11 - 12 15 - 16 17 - 18 21 - 22 25 - 26 29 - 30	September 12, 2022 October 11, 2022 November 7, 2022 December 5, 2022 January 3, 2023 January 30, 2023 February 28, 2023 March 27, 2023	- - - - -	September 25, 2022 October 23, 2022 November 20, 2022 December 18, 2022 January 15, 2023 February 12, 2023 March 12, 2023 April 9, 2023	
STUDENT NUMBERS:	2-3 students	per rotation.			
DESCRIPTIVE:	This is a clinical dermatology rotation where referral, small animal and equine dermatology cases are examined by each of the students on the rotation. Clinical rounds may be held daily with discussion of cases seen during the day.Evaluations will be based on performance, clinical duties and participation in rounds.After hours and weekend duty is not anticipated, but will be required if needed.				

Diagnostic Pathology (Necropsy & Clinical Pathology)

ROTATION CODE:	LD * Mandatory rotation for all students.					
INSTRUCTORS:	<u>Necropsy</u> : Drs. E. Aburto, A. Allen, A. Al-Dissi, S. Detmer, H. Philibert, E. Simko, B. Wobeser and others (to be determined) <u>Clinical Pathology</u> : Drs. H. Burgess, R. Dickinson, M. Kerr, M. Meachem, L. Munasinghe and others (to be determined)					
DURATION:	2 weeks					
TIMING:						
	1 - 2 $3 - 4$ $5 - 6$ $7 - 8$ $9 - 10$ $11 - 12$ $13 - 14$ $15 - 16$ $17 - 18$ $19 - 20$ $21 - 22$ $23 - 24$ $25 - 26$	August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 October 24, 2022 November 7, 2022 November 7, 2022 December 5, 2022 January 3, 2023 January 16, 2023 January 30, 2023 February 13, 2023 February 28, 2023	- - - - -	September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 6, 2022 November 20, 2022 December 4, 2022 December 18, 2022 January 15, 2023 January 29, 2023 February 12, 2023 February 24 (6PM), 2023 March 12, 2023		
STUDENT NUMBERS:	Maximum of 7 students per rotation Necropsy (1 week) followed by Clinical Pathology (1 week)					
DESCRIPTIVE:	<u>Necropsy</u> The necropsy portion of the rotation is devoted to the post-mortem examinations of a range of animal species submitted through Prairie Diagnostic Services, Inc. which are done under the supervision of a faculty member or senior resident. Students gain experience in necropsy technique, acting on necropsy findings in order to make diagnoses, maintaining personal safety and biosecurity, and writing and presenting concise reports of the findings. Emphasis is placed on the recognition and interpretation of gross lesions, consideration of differential diagnoses, and how to best utilize services offered by a diagnostic laboratory to arrive at a diagnosis. Portions of each day will be used to discuss cases, review selected topics in veterinary pathology, or attend departmental seminars.					

Clinical Pathology

The clinical pathology portion of the rotation consists of structured sessions and independent study. Students will evaluate current cases in hematology, chemistry and cytology and discuss laboratory data from cases provided in hand-out or electronic format. Bone marrow indications, collection methods and basis of interpretation will be discussed. Students are expected to integrate laboratory and necropsy data as part of the medical and surgical problem solving experience.

All students are required to attend the Anatomic Pathology seminars at 4:30 p.m. on days that they are conducted and students may be asked to discuss relevant laboratory data. Also, students are required to attend other seminars presented in the department of veterinary pathology.

Ecosystem Health

INSTRUCTORS:	Dr. T. Epp (email: <u>tasha.epp@usask.ca</u>)				
DURATION:	2 weeks				
TIMING:	Weeks 9-10 (October 24 to Nov 4)				
STUDENT NUMBERS:	Max: 4 students from WCVM				
DESCRIPTION:	The Ecosystem Health rotation is a unique two-week course for senior veterinary students offered jointly by Canada's veterinary colleges. In addition, with funding supplied by the University of Guelph, 2 international student placements may be filled as well.				
	The goals of this course are to enable final veterinary students to understand the history and concepts of ecosystem health, ecohealth/One Health and sustainable development, to investigate and propose solutions to animal and human disease problems that have ecosystem implications, and to describe, using specific examples, the relationship between animal and human health issues, and the ecosystem in which they are situated. From this course, students should also expect to expand their capability to approach complex problems.				
RATIONALE:	Traditional contributions of veterinary medicine have been directed toward animal health at the individual or population level; however, veterinary medicine has much to contribute to the resolution of important problems at the community and/or ecosystem levels. The Ecosystem Health course provides an intensive exploration of selected problems characterized by interactions between animal, human and environmental variables, using them to demonstrate how the veterinary profession can contribute to the assessment and solution of these problems. The course contributes to expanding the career options for veterinarians and helps assure the societal relevance of veterinary medicine into the future.				
STRATEGY:	The Ecosystem Health course emphasizes field-based investigations where solutions may include ethical, social, cultural, economic and legal considerations. The Atlantic Veterinary College will host this year's rotation, exploring interesting ecohealth case studies in several locations in PEI (still under development). Case studies may include agroecosystems, watersheds, and/or wildlife/domestic animal disease occurrences. The content of this course will emphasize basic skill sets necessary for individuals investigating multi- level, complex health issues that involve the environment, people and animals.				
EXPENSES:	Students will be charged a course fee of \$150 per student to help defray some of the extra costs associated with this rotation – travel, accommodations, and food while at PEI. Students are responsible for arranging and covering the costs associated with transportation to the rotation, timing such that the student is ready to participate in the start of the PEI course and remains until the end of the course. Students must be ready to stay at whatever accommodations that all other students (AVC, UCVM, OVC and FMV) will be at during the time in PEI.				
EVALUATION:	Based on attendance, participation in lectures, discussions and field activities, cooperation and interpersonal skills, knowledge and investigation of issues, professional conduct, diagnostic "problem solving" ability in the context of environmental issues. Students will be graded using the WCVM grading scheme – focusing on the following: Communication, Collaboration, and Scholarship.				

Elder's Equine - Manitoba

ROTATION CODE:	EEM, EEM17				
INSTRUCTORS:	Dr. Chris Bell				
DURATION:	2 weeks				
TIMING:	S17-S181 - 23 - 45 - 67 - 89 - 1011 - 1213 - 1425 - 2627 - 2829 - 3031 - 32	August 15, 2022 August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 October 24, 2022 November 7, 2022 November 21, 2022 February 28, 2023 March 13, 2023 March 27, 2023 April 10, 2023	- - - - - -	August 28, 2022 September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 6, 2022 November 6, 2022 December 4, 2022 March 12, 2023 March 26, 2023 April 9, 2023 April 23, 2023	
STUDENT NUMBERS:	One student	per rotation.			
PREREQUISITE:	Completion or rotation.	of one Equine Field Serv	ice rotat	ion before taking the	
DESCRIPTIVE:	 Completion of one Equine Field Service rotation before taking the rotation. This rotation is best suited for a student with a keen interest in equine practice and that has a great deal of comfort working around horses. Elders Equine is a full service equine private practice including special interest in surgery, lameness and sports medicine. Our practice consists of both ambulatory and hospital case load. We have 6 veterinarians on staff including boarded surgeon, boarded equine practice specialist and anesthesiologist. Our referral caseload catchment area includes southern Saskatchewan, all of Manitoba and northern Ontario. Our primary general caseload includes lameness, sports medicine, routine teeth floating, vaccinations and herd health assessments as well as emergency on call care. We are equipped with digital radiography, ultrasound and endoscopy as well as in house lab including blood gas monitoring and serum amyloid A analysis. Our regenerative medicine caseload includes platelet rich plasma therapy, stem cell therapy, shockwave therapy and IRAP therapy as well as comprehensive rehabilitation programs including multimodality 				

rehab techniques. We have a board certified equine surgeon and perform both standing procedures and general anesthesia procedures with our staff anesthesiologist. We are the only equine specific practice with a hospital and only equine referral surgical practice in the Province of Manitoba.

Brief Description of the rotation:

• General equine practice with additional equine surgical, sports medicine, internal medicine and thoroughbred racetrack caseload. Student will gain experience with in clinic and ambulatory cases as well as exposure to the thoroughbred racetrack clinical environment (April thru early Sept). The student will be exposed to the use of digital xray, ultrasound, endoscopy, shockwave therapy, advanced regenerative medicine (PRP, Stem cells, IRAP). This rotation is best suited for a student with a keen interest in equine practice. The student may also be exposed to routine shedrow procedures such as endoscopy, digital xrays, ultrasound of tendon injuries as well as race day and pre-race medication with emphasis on ethical use of medications in racing. The student will also be exposed to all general practice caseload and surgical cases that present to the practice including after hours emergencies.

Housing and Transportation: Must be provided by student

Travel: Must be provided by student

<u>Contact Information</u>: Dr. Chris Bell BSc, DVM, MVetSc Diplomate of the American College of Veterinary Surgeons Equine Surgery, Lameness and Sports Medicine Senior Surgeon and Practice Owner Elders Equine Veterinary Service Winnipeg, Manitoba, Canada 204-864-2888 (o) Chris.bell@eldersequineclinic.com

Emergency & Critical Care

ROTATION CODE:	ECC, ECCS17				
INSTRUCTORS:	Dr. Jen Loewen, DVM, DACVECC Interns who are on rotation at that time ER doctors who are working at this time				
DURATION:	2 weeks				
TIMING:	S1-2(April 25- May 8 th 2022) S17-18 (August 15-28 2022)				
STUDENT NUMBERS:	4-9 students per rotation				
DESCRIPTIVE:	This course will contain both clinic work as well as didactic learning. Lectures will focus on emergency topics or procedures or discussing cases in hospital. There may be the opportunity to perform the in-person CPR RECOVER course if there is enough student interest and pending covid restrictions(note: cost associated with course is students' responsibility).				
	The students will be responsible for the day-to-day assessment and treatment of patients admitted to enable the student to apply the principles of history taking, client communication, clinical examination, creating a list of differential diagnoses and diagnostic plan, therapy and disease prevention in a supervised clinical setting. This will also allow the student to become familiar with the costs associated with treatment and hospitalization Students should expect to work during the daytime and evenings on week				
	days and weekends with the possibility for overnight responsibilities. The specific time table will be developed and in place once enrolment is known.				
	 Objectives: Perform proper general history, disease specific history and SAMPLE history for patients arriving to the emergency service Perform proper primary and secondary survey's on emergency patients and triage appropriately Develop a complete prioritized problem list and differential list (using a DAMNITV scheme) for assigned patients Recommend a diagnostic and/or treatment plan based on the patient information (problem list and differential list) Discuss the pathophysiology behind the diseases presented in the emergency and critically ill setting. Perform emergency techniques such as A/TFAST scan and some procedures listed below Specific goals to complete (discussion base with possibility of performing): Techniques for cardiopulmonary resuscitation (CPR) Utilization of the ultrasound in the emergency room Thoracocentesis (diagnostic and therapeutic) 				

- > Approach to chest tube placement
- > Approach to pericardiocentesis
- ➢ Fluid therapy in emergency and critical care •Cystalloids •Synthetic colloids Natural colloids Blood transfusions
- > Pain control
- > Nutritional support with emphasis on tube placement techniques
- Practical management of critical patients (ie. application of constant rate infusions, oxygen delivery, etc.)

* A student may take this rotation only once.

There may be additional fees associated with this rotation.

Equine Dentistry

ROTATION CODE:	EQD					
INSTRUCTOR:	Dr. Michelle Husulak					
DURATION:	2 weeks					
TIMING:	Weeks 21 – 22 January 30, 2023 – February 12, 2023					
STUDENT NUMBERS:	4-8 students per rotation					
PREREQUISITE:	Students must have participated in the Equine Health Management and Clinical Techniques elective (VLAC 495) in year 3 of the DVM program and be scheduled in Large Animal Surgery.					
DESCRIPTIVE:	This rotation will combine didactic, laboratory and clinical learning. Lectures will focus on dental anatomy and masticatory physiology and pathology, routine and advanced dental procedures as well as advanced imaging and other diagnostic modalities. Laboratory sessions will utilize cadaver heads and simulations for all students to gain basic competence with skills in equine dentistry. Students will then progress to working on live horses in the clinical setting. Both WCVM teaching horses and client owned horses will be included, and students can expect to gain considerable experience with routine dental examinations and procedures, including imaging in the live animal. This rotation involves an overnight trip in the 2 nd week to Lumsden, SK, to perform dentistry on horses at a riding camp. Students may be asked to drive themselves to farms in the area or to Lumsden.					

Equine Lameness Rotation

ROTATION CODE:	ELQ			
INSTRUCTORS:	Dr. J. Bracamonte			
DURATION:	2 weeks			
TIMING:	3-4	September 12, 2022 – September 25, 2022		
STUDENT NUMBERS:	6 students p	er rotation		
COREQUISITE:		st be scheduled in Large Animal Surgery. A preference n to students who have taken the VLAC 494 Equine ctive		
DESCRIPTIVE:	the Equine specific ha lameness in Rotation i techniques and to be lameness co students to frequently rotation wi of lectures, review, dia followed by presentation to provide own. This experience the rotation wi being able to client-owned diagnostic diagnostic	k elective rotation will be offered at the WCVM, using Performance Center and different assigned areas for inds-on laboratories. This rotation is focused on a the equine athlete. The goal of the Equine Lameness is to provide WCVM Students knowledge and in the continually evolving area of equine lameness tter prepare students to understand and manage onditions in horses. This rotation aims to help prepare to diagnose commonly causing lameness that are encountered in a sports medicine private practice. The ll consist of a series of half day education comprising daily presentations (clinical cases, videos, anatomy gnostic imaging focused on a certain area of the limb) y hands-on labs to complete the day. The lectures and ns (in addition to labs) will be given in the first week students the knowledge to work up lameness on their rotation is heavily focused on providing a hands-on and therefore, hands-on will be offered since Day 1 of n. The hands-on portion of the Equine Lameness ill provide students with invaluable experience on to fully work up a lameness cases (teaching horses and ed horses) at their own pace; to perform appropriate local anesthesia (nerve/intra-articular blocks), imaging techniques and gain experience interpreting eas discussed in lectures and throughout the clinical tations.		

The objective of this rotation is to provide a complete and thorough overview of Equine Lameness which will include how to perform a lameness examination, biomechanics of lameness, ridden lameness, behaviour assessments, local anesthesia, diagnostic imaging techniques commonly used in equine lameness, understanding radiographic projections and views, lameness associated to the foot, fetlock, metacarpus, carpus, hock and stifle. In addition, Prepurchase Exams will be covered in this rotation to further help Students with this common practice that is performed on equine athletes. Moreover, Students will be exposed to a wide variety of treatment types, including conventional, regenerative, and alternative treatment options.

No emergency or weekend duty will be expected of the students. In addition, if individual patients require ongoing care inhospital (or in-pen), it is expected that the students provide this care with clinician supervision.

Equine Theriogenology Foaling Rotation

ROTATION CODE:	FOAL11, FOAL 15				
INSTRUCTORS:	Drs. C. Card				
DURATION:	2 week rotations				
TIMING:	S11 – 12 S15 – 16	June 20, 2022 <mark>August 2, 2022</mark>	-	July 3, 2022 August 14, 2022	

STUDENT NUMBERS: 8 students per rotation

DESCRIPTIVE:

Objectives

- Learn the physiologic events surrounding normal parturition
- Learn prepartum assessment of mares
- Learn signs of and Intervention Strategies for Dystocia
- Learn normal neonatal foal behaviour, handling and management

Students will primarily be involved in managing a group of foaling mares at LFCE Goodale. This will include assessing mares for readiness to foal, overnight foal watch, attending parturition, placental assessment, foal care (behavioural assessment, navel, enema, SNAP test), and level one - two management of foals (assistance with nursing, bottle or tub feeding) as needed.

Students may have 3 - 5 night shifts (midnight to 8 am) in the 2 week rotation. Students are not expected to participate in clinical activity the day after their nightshift.

During daytime hours the students will participate in prefoaling mare assessments and equine reproduction work at the WCVM at the VMC.

The equine reproduction work will include clinical case management of mares and stallions. This predominately ultrasound monitoring, artificial insemination, and post-breeding management of mares, examination and treatment of subfertile mares, and stallion semen collection and cryopreservation. The caseload at this time of year is busy.

Resource Materials: Manual of Equine Reproduction Elsevier 2010. Brinkso et al. The pregnancy wheel https://www.equineguelph.ca/pregnancywheel/ FoalinMare video https://www.ugent.be Equine Reproduction. Wiley-Blackwell Pub. 2011. McKinnon, Squires, Vaala, Varner

Equine Theriogenology

ROTATION CODE:	SUTH1, SU	JTH2, SUTH3			
INSTRUCTORS:	Drs. C. Card and S. Manning				
DURATION:	2 week rotations				
TIMING:	S1 – 2 S3 – 4 S5 – 6	April 25, 2022 May 9, 2022 <mark>May 24, 2022</mark>	- -	May 8, 2022 May 23, 2022 June 5, 2022	

STUDENT NUMBERS: 4 students per rotation

DESCRIPTIVE: Students will be involved in all aspects of management on Veterinary Medical Centre equine theriogenology patients including mares, foals and stallions. This is a busy time of year for the equine theriogenology service with a broad range of breeding and foaling activities. Students will also have access to teaching horses to gain more practical experience. This provides an excellent exposure to the types of cases commonly presented to both a first opinion practice and referral hospital. Rounds or educational activities are held each day with faculty. Students may have some exposure to other species. Students will be busy during the day and will participate equally in after-hours night duty including foaling monitoring and reproductive management.

Field Service - Equine

ROTATION CODE:	FSEQ; FSEQ1, FSEQ2, FSEQ3					
INSTRUCTORS:	Dr. M. Husu	Dr. M. Husulak				
DURATION:	2 weeks					
TIMING:	S1 - 2 S3 - 4 S5 - 6 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 23 - 24 25 - 26 27 - 28 29 - 30 31 - 32	April 25, 2022 May 9, 2022 May 24, 2022 August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 October 24, 2022 November 7, 2022 November 7, 2022 November 5, 2022 January 3, 2023 January 16, 2023 February 13, 2023 February 28, 2023 March 13, 2023 March 13, 2023		May 8, 2022 May 23, 2022 June 5, 2022 September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 6, 2022 November 6, 2022 December 4, 2022 December 18, 2022 January 15, 2023 January 29, 2023 February 24 (6PM), 2023 March 12, 2023 March 12, 2023 April 9, 2023		
STUDENT NUMBERS:	2 - 4 student	s per rotation				
DESCRIPTIVE:	General Equine Practice. Emphasis will vary depending on season but will include English and western performance horses, pleasure horses, broodmare work, thoroughbred racetrack work and preventative medicine and herd health. Student participation in out of hours work and rounds is mandatory. There will be on-call responsibilities, which are arranged by the students on the rotation. If you live out of town and it will take more than 15 minutes to arrive at the WCVM, the student is expected to stay overnight in the Hospital Residence.					

* Students may repeat this rotation.

Field Service - Ruminant

ROTATION CODE:	FS					
INSTRUCTORS:	Drs. N. Erickson, J. Campbell, F. Schumann, K. Gabadage					
DURATION:	2 weeks					
TIMING:	S1-2 $1-2$ $3-4$ $5-6$ $7-8$ $11-12$ $13-14$ $15-16$ $17-18$ $19-20$ $21-22$ $23-24$ $25-26$ $27-28$ $29-30$ $31-32$	April 25, 2022 August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 November 7, 2022 November 7, 2022 December 5, 2022 January 3, 2023 January 16, 2023 January 16, 2023 February 13, 2023 February 28, 2023 March 13, 2023 March 13, 2023 April 10, 2023		May 8, 2022 September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 20, 2022 December 4, 2022 December 18, 2022 January 15, 2023 January 29, 2023 February 12, 2023 February 24 (6PM), 2023 March 12, 2023 March 26, 2023 April 9, 2023 April 23, 2023		

STUDENT NUMBERS: 2 - 3 students per rotation, depending on the time of year.

DESCRIPTIVE: This course is designed to give students an opportunity to learn to make rational decisions relative to the management and prevention of diseases in ruminants. Students will also learn to handle restrain and examine food animals under field conditions. This course will assist students to develop observational and communicative skills to collect information and to understand different aspects of the beef and dairy industries.

* Students may repeat this rotation.

Island Veterinary Hospital – Richmond, BC

ROTATION CODE:	IVET				
INSTRUCTOR:					
DURATION:	2 weeks				
TIMING:	9-10 13-14 27-28	October 24, 2022 November 21, 2022 March 13, 2023	- - -	November 6, 2022 December 4, 2022 March 26, 2023	
STUDENT NUMBERS:	1 students pe	r rotation			
DESCRIPTIVE:	South Burnaby Veterinary Hospital is a general practice located in Burnaby, BC. Students will assist doctors during routine and urgent care appointments, dental procedures and surgeries.				
	Expectations Work Hours:	: 10 hour shifts 4 days a	a week, r	no overnights	
MISCELLANEOUS:	Attire: Extern's own surgical scrubs/ business casual Housing: Not provided. Travel: Students are expected to provide their own means to travel to the practice.				

Kennedy Heights Animal and Bird Hospital – Surrey, BC

ROTATION CODE:	KEN			
INSTRUCTOR:				
DURATION:	2 weeks			
TIMING:	5-6 15 – 16	September 26, 2022 December 5, 2022		October 10, 2022 December 18, 2022
STUDENT NUMBERS:	1 students per	rotation		
DESCRIPTIVE:	Kennedy Heights Animal and Bird Hospital is a general practice located in Surrey, BC. Students will be assisting doctors during routine appointments, dentals and surgeries of companion animals.			
		Monday - Friday 8am - ngs. No Sundays.	6 pm, o	pen Saturday's 9 am - 2
MISCELLANEOUS:	Housing: No	n's own surgical scrubs/ t provided. There are se ents are expected to prov	veral hot	tels in the area.

Laboratory Animal Medicine

ROTATION CODE:	LAB			
INSTRUCTORS:	Dr. K. Swek	la (coordinator), Dr. B. C	Bray, Dr.	M. Timonin
DURATION:	2 weeks			
TIMING:	S1 - 2 S7 - 8 S9 - 10 1 - 2 3 - 4 5 - 6 7 - 8 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 - 32	April 25, 2022 June 6, 2022 June 20, 2022 August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 November 7, 2022 November 7, 2022 December 5, 2022 January 3, 2023 January 16, 2023 January 16, 2023 February 13, 2023 February 28, 2023 March 13, 2023 March 13, 2023		May 8, 2022 June 19, 2022 July 3, 2022 September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 20, 2022 December 4, 2022 December 4, 2022 January 15, 2023 January 29, 2023 February 12, 2023 February 24 (6PM), 2023 March 12, 2023 March 26, 2023 April 9, 2023
STUDENT NUMBERS:	1 student per	rotation		
DESCRIPTIVE:	 This rotation provides an opportunity to gain experience, skills, and knowledge in laboratory animal medicine. Students will develop the following skills and experience: Expand clinical skills through participation in clinical rounds, journal club, and presentation of cases to senior staff Broaden knowledge of basic husbandry, biology, and diseases of vertebrate species used in teaching, research, and testing at the University of Saskatchewan, which are variable but can include swine, sheep, goats, cattle, horses, dogs, cats, rodents, rabbits, various avian and aquatic species in agricultural, biomedical, behavioural, and wildlife settings. Become familiar with basic pathology of common lab animal diseases 			

• Observe and participate in animal surgeries and anesthesia

- Become familiar with rodent sentinel health programs, rodent necropsy, quarantine, rodent shipping and receiving, vendor health surveillance and facility quality assurance measurements
- Learn basic principles of managing large laboratory animal colonies
- Become familiar with the regulations involved for animals used in research, testing, and teaching through discussions with veterinarians and attendance at Usask Animal Care Committee meetings
- Learn basic principles of developing Humane Intervention Points and Experimental Endpoints
- Participate in animal use protocol evaluation and gain exposure to research techniques pertaining to animal use
- Become familiar with Canadian Council of Animal Care standards, animal transport, import/export, and other applicable regulations and guidelines.
- Learn the fundamental principles of biohazard and occupational safety
- Become familiar with resources related to laboratory animal medicine including publications, websites, organizations, and continuing education

Students will be expected to participate in weekly rounds, seminar series, and journal club rotations. Specific didactic aspects include:

- Weekly veterinary meetings
- Present one journal club article
- Provide a presentation on a laboratory animal research topic of their choice
- Assist with training seminars offered by UACC Clinical Veterinarians
- Complete online training module, including the "Basic Module" and additional online training in at least one species of interest.

Large Animal Imaging

ROTATION CODE:	LMI			
INSTRUCTORS:	Dr. K. Tryon			
DURATION:	2 weeks			
TIMING:	Weeks 9 – 10	October 24, 2022	-	November 6, 2022
STUDENT NUMBERS:	8 students per rotati	on		
COREQUISITE:	Students must be sci clinical year.	heduled in Large Animal	Surgery	during their
DESCRIPTIVE:	on report ultrasoun equine reproductive with Equine Radiogi interpretation of eq	ng rotation is expected to d of the bovine reproduce e imaging. The remainder raphic positioning and im uine radiographs and ad may be opportunities for S.	tive trac of the t age acqu vanced ir	t, and 1-2 days of ime will be spent uisition, maging

Large Animal Medicine

		8		
ROTATION CODE:	LAM			
INSTRUCTORS:	Drs. T. Afon T. Afonso	so, J. Montgomery, 3rd c	linician	TBD; coordination: Dr.
DURATION:	2 weeks			
TIMING:	S1 - 2 S3 - 4 S5 - 6 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 - 32	April 25, 2022 May 9, 2022 May 24, 2022 August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 October 24, 2022 November 7, 2022 November 7, 2022 December 5, 2022 January 30, 2023 January 16, 2023 January 30, 2023 February 13, 2023 February 28, 2023 March 13, 2023 March 27, 2023 April 10, 2023	- - -	May 8, 2022 May 23, 2022 June 5, 2022 September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 6, 2022 November 6, 2022 December 4, 2022 December 4, 2022 January 15, 2023 January 29, 2023 February 12, 2023 February 24 (6PM), 2023 March 12, 2023 March 12, 2023 April 9, 2023 April 23, 2023
STUDENT NUMBERS:	2-6 students	per rotation		
DESCRIPTIVE:	To enable the student to apply the principles of history taking, client communication, clinical examination, creating a list of differential diagnoses and diagnostic plan, therapy and disease prevention in a supervised clinical setting. To become familiar with the costs associated with treatment and hospitalization. To improve the students' skills and confidence in handling and restraining large animals and to develop the technical skills required to obtain samples, perform diagnostic procedures, and to treat horses and			
	food animals To allow the		le for the	e day-to-day assessment

regular hours and after hours. Through this experience the student will learn about the progression and prognosis of a disease and how that disease responds to therapy.

To meet these objectives, the students must have a complete understanding of the cases, including the basis for each treatment and management procedure that is employed. This means not only examining the cases carefully but also consulting notes, textbooks, the literature, and relevant veterinary databases.

During the regular academic year, group discussions are held daily in the morning on cases admitted to the Large Animal Clinic, or on topics of interest. In addition, small group teaching is held to discuss the broader concepts of the economic impact of certain diseases, and disease control and prevention. During the summer rotations, formal small group discussions are not scheduled.

Students are expected to support the after-hours and weekend large animal in-house services (internal medicine, surgery, theriogenology) incl. staying in the residence overnight on a rotational basis.

The evaluation of student performance will be based upon individual performance in the clinic, and in rounds. During the regular academic year, a presentation to the large animal medicine group will also contribute to the overall evaluation. This is not the case during the summer rotations.

* Students may repeat this rotation. We would not recommend (except in exceptional circumstances) that a student take more than four weeks of this rotation.

Livestock and Forage Centre of Excellence Calving Rotation

ROTATION CODE:	LFCE			
INSTRUCTORS:	Dr. C. Palme	Dr. C. Palmer, Large Animal Clinical Sciences		
DURATION:	2 week rotat	tions		
TIMING:	29 – 30 31 – 32	March 27, 2023 April 10, 2023	- -	April 9, 2023 April 23, 2023
STUDENT NUMBERS:	2 - 6 student	ts per rotation		
COREQUISITE:	Students mu	ist be scheduled in Large	Animal I	Medicine.
DESCRIPTIVE:	Excellence, south of Cla 100 heifers I bred natural over 300, ar- begins appro- experience r cowherd cal of April ther Students ma spend most of mothering is colostrum of activities. In up cows and LFCE staff i and surgical be paid to fin properly. By able to recog intervention obstetrical in the rotation daily rounds researchers, be accepting times are slo it is busy the A positive a	in monitoring the herd, an treatment when needed. rst parity animals to ensu y the end of this rotation gnize the three stages of p is necessary, and how to ntervention and fetotomy using simulation models. s, wet labs, and opportuni grad students and staff. S g of flexible scheduling an	ch and T roup con ed-time a s cycles. refore, the r. The fini- tich will ion. By t born per calving alving's, calves h hing calving alving's, calves h hing calving ork with nd provide Particula the for so parturitice ork with students parturitice of the rota titles for e Students nd last-n inds and nt tendin to work	Yeaching Unit located sists of approximately artificial insemination or The cows, numbering heir breeding season rst rotation will transition into the main he second to third weeks day. Dystocias are rare. 's per rotation. Students making sure that have received adequate we and other learning me busy days mothering WCVM veterinarians and ding obstetrical, medical, ar attention will need to nothering has occurred will be expected to be on and to determine when he. Instruction on given at the beginning of ation will also include engagement with LFCE taking this rotation must hinute changes – when time for discussion; when g to the animals. as a team is a must for

A positive attitude and a winnigness to work as a team is a must for this rotation. At all times be respectful to all of those you work with, and you should expect the same in return. Night and weekend work is to be expected; however, it will be shared on an equitable basis. Students will be paired with an LFCE staff member(s) for after-hours checks. This rotation will be considered eligible for the large animal core requirement.

This rotation is intended for those interested in pursuing a career in large or mixed animal practice who lack experience calving cattle.

Livestock Veterinary Services – Dairy Rotation

ROTATION CODE:	LVS
INSTRUCTOR:	Dr. Kelli Pinner
DURATION:	2 weeks
TIMING:	pre-draft application procedure
STUDENT NUMBERS:	1 student per rotation
DESCRIPTION:	Livestock Veterinary Services is a progressive 5 veterinarian and 2 technician ambulatory practice located in Picture Butte, Alberta. Our services are primarily dairy preventative medicine focused and cover a large geographical area. Please visit our website for further information about our practice: www.livestockvet.ca
	During the rotation students will learn the principles of dairy herd health. The rotation involves a large volume of preventive herd medicine work including reproduction, population medicine, consulting, and record analysis using Dairy Comp 305. Students will also be exposed to individual animal health needs and in most cases bovine GI surgery.
PREPARATION:	Please review your bovine reproductive physiology, population medicine and any herd monitoring lectures and notes you have received. Dairy Comp 305 is used frequently for herd analysis. An introduction to this program prior to the start of this rotation is an asset but is not required. Bring your own stethoscope and thermometer for physical exams. Please be prepared to complete a full physical exam on a dairy cow (review your notes). Please bring as many pairs of coveralls as possible (minimum of 4). Biosecurity is important to us and our producers.
	Hours are variable depending on the caseload and may begin before 7am or extend past 6pm on certain days. Students are be expected to follow the practitioners' regular hours. Students will be given notice 1 week prior to the start of rotation on where the starting time and location will be for their first day. They will be given notice of the start time and tentative plan for each subsequent day of the rotation from there on. This is done in order to give students the most enriched day possible, as well as to provide for a variety of cases and veterinarians to learn from. On call is not required, but it is

recommended that students make themselves available every other weekday night in the event of a bovine emergency.

Accommodations can be made available by clinic staff hosting students in their homes. Please contact our practice manager for details on cost, location, etc. at <u>admin@livestockvet.ca</u>

Manitoba's Chief Veterinary Office – Animal Welfare (Winnipeg)

ROTATION CODE:	MPL		
INSTRUCTORS:	Dr. Lisa Joachim	and Dr. Nicole Sheedy	
DURATION:	2 weeks		
TIMING:	Weeks S5-6	May 24, 2022 -	June 5, 2022
STUDENT NUMBERS:	2 students per ro	tation	
DESCRIPTIVE	Agriculture oper Manitoba's dom <i>Act.</i> This progra animal welfare I Humane Societic Animals (SPCAs of the strongest a Minister of Agria 100 animal proto province to enfor of veterinarians, provincial gover retired/active pol Humane Society animals in Manit non-domestic sp concerns about p During the cours exposure to issu role of public ser an understanding comprehension v presentation. <u>Student Evalua</u> Final student gra accordingly: Par Assignments – 2 Special Topics P	de will be determined ticipation – 60% 0% resentation: 20%	by the provinces enforce ther provinces enforce h privately funded ention of Cruelty to s been referred to as one in the country. The ntly have approximately binted throughout the these APOs are composed es, current/retired control officers, es of the Winnipeg all domestic species of animals, livestock, and erinarians to report eglect. s will receive broad e with an emphasis on the ield. Students should gain o demonstrate their
	developi understa	ion and policy: Understand nent of animal welfare rela	plication of these documents

- Understanding *The Animal Care Act*: The requirements of caregivers to provide adequate care to their animals, determining compliance under *The Animal Care Act*, authority of APOs to pursue corrective action to relieve/prevent animal distress, powers of investigation, penalties.
- **Inspections:** Evaluating complaints to determine relevance to *The Act*, conducting inspections and collecting information to determine compliance under *The Act*, authority to pursue corrective action to achieve compliance or relieve animal distress.
- **Investigations:** Conducting investigations and collecting evidence to support violation of *The Act*, formulating court briefs and providing witness testimony to support charges under *The Act*.
- **Relationships with other animal welfare stakeholders:** Understanding the roles of other animal welfare/rescue agencies in supporting animal welfare enforcement.

Rotation Description:

- Policy Development students will be asked to write a balanced policy discussion document regarding an animal welfare issue and present this to a stakeholder panel for review.
- Demonstrate report writing and evidence collection skills, demonstrate an understanding of local animal welfare policy/legislation – students will be asked to submit reports relevant to inspections/investigations they participate in. These reports should demonstrate an understanding of inspection techniques, documentation of appropriate information to determine compliance under *The Act*, and collection of appropriate evidence to support allegations of animal abuse/neglect under *The Act*.
- Tour of CVO office and introduction to employees administering the humane inspection program.
- Attend animal protection officer training and/or continuing education session relevant to animal welfare.
- Forensic pathology, investigation techniques introduction to veterinary pathologists and staff in veterinary diagnostic lab, tour of veterinary diagnostic lab, instruction in conducting post mortems and collecting/processing samples to determine compliance and support charges under *The Act*.
- Humane treatment of zoo species evaluate animal care and husbandry at the Winnipeg zoo in relation to methods of ensuring emotional and physical needs of animals are met to ensure health and well being.
- Humane treatment of livestock animals from farm to slaughter -Attending livestock processing plants, assembly yards, and auction marts to evaluate humane animal handling techniques and protocols
- Inspections

- Attending humane inspections in Winnipeg with APOs at the Winnipeg Humane Society (WHS)
- Attending humane inspections in rural Manitoba with APOs
- Attending inspections specific to licensing of kennels, breeders, and companion animal retail stores
- Attending inspections specific to livestock auction marts and assembly yards
- An effort will be made to expose students to common complaints including animal hoarding, starvation, and complaints specific to animals being housed in cold climates. An effort will also be made to involve students in cases in the event that animals are deemed to be in distress; or if corrective action such as seizures or surrenders are executed to relieve distress.
- Introduction to other animal welfare stakeholders:
 - Tour of the WHS understanding the role of animal shelters in supporting the CVO in the event that animals are surrendered to or seized by the CVO. This will include documenting identification of animals admitted to the WHS by the CVO, medical evaluation specific to concerns of animal abuse/neglect, providing ongoing care to animals on behalf of the CVO.

Attire/Equipment Required

Winter weather in Manitoba is similar to Saskatchewan, cold and unpredictable.

Students should bring:

- Clothes to conduct inspections in cold weather outdoors for extended periods that can be sanitized if contaminated including: Coveralls, boots, toques, mitts, scarves, warm coats.
 - Inspections may include exposure to animals carrying infectious/zoonotic/contagious disease, so clothes worn should be safe to be cleaned/sanitized appropriately to prevent spread of disease.
- Lab coat and scrubs
- Business casual attire when in the office
- Camera
- Laptop computer
- Cell phone

Assignments:

- 1. **Special Topics Project** (30 min. presentation + 15 min. for discussion per student)
 - This assignment is comprised of a Power Point and verbal presentation made to a panel of Animal Welfare professionals. The students may select one of the Animal Welfare Special Topics provided or may develop their own (must be approved).
 - This presentation must include a brief yet thorough review of

the issue including the various positions of significant stakeholders, potential resolutions to the issue and a recommend path forward along with the justification for these recommendations.

2. Humane Inspection Report

• Students will participate in a number of Humane Inspections throughout the first week. Each student is to select one of these inspections and to submit a completed Humane Inspection Report

3. Animal Welfare Case Management

• An animal welfare case will be presented to the students. Each student is to write a case summary describing how they would see the case to completion outlining the justification for their decisions using *The Animal Care Act* and Regulations of Manitoba.

4. Animal Welfare Policy Advisory Note – Tour confirmation pending

- Students will attend a tour of a livestock handling/processing facility and be involved in a discussion on the facility as it relates to a current animal welfare issue. They will then write a draft Advisory Note regarding this issue for the Minister following a template provided.
- Students will attend a tour/inspection of a boarding kennel and an animal rescue/shelter – due to budgeting constraints enforcement of existing licensing provisions under *The Animal Care Act* have been minimal, and the value of the licensing program is being challenged. You will then be asked to write a draft Advisory Note for the Minister regarding this issue. Be prepared to discuss the concerns of stakeholders in regards to licensing under the Act, the pros/cons of the licensing program, and your recommendations whether to maintain the licensing component of this Act.

Hours of Work

- In general, hours of operation at the CVO office range between 8:00am to 5:30pm depending on the activity involved. Our office is located at 545 University Crescent, Winnipeg, Manitoba, R3T 5S6; we are situated on the University of Manitoba Campus at the south end of Winnipeg.
- In the event of an animal emergency such as a seizure or surrender, students may be required to work earlier or later than the hours posted above.

Travel and Accommodations

If travel is required during this rotation every effort will be made to accommodate students with existing means of transport available to the CVO.

Students will be responsible for providing their own accommodations and daily transportation to and from our office, for the duration of this rotation.

* A student may take this rotation only once.

CONTACTS:Dr. Lisa Joachim @ (204) 794-1591 or lisa.joachim@gov.mb.caDr. Nicole Sheedy @ (204) 380-9077 or Nicole.sheedy@gov.mb.ca

Manitoba Swine

ROTATION CODE:	MSW
COORDINATOR: SUPERVISOR:	Dr. J. Harding, Dr. M. Costa Dr. B. Tully
DURATION:	2 weeks
TIMING:	pre-draft application procedureWeeks 11-12November 7-20, 2022Weeks 15-16December 5-18, 2022Weeks 17-18January 3-15, 2023 (Banff Pork Seminar is Jan 5-6, 2022)Weeks 25-26Feb 28-Mar 12, 2023 (AASV is Mar 4-7, 2023)
STUDENT NUMBERS:	1 student per rotation
PREREQUISITES:	Enrollment in the Swine Practice Rotation unless permission from Dr. Harding is granted. Cases will be assessed on a case-by-case basis.
DESCRIPTION:	This rotation is designed to build on the Swine Practice rotation, by providing extensive clinical training by specialist swine veterinarians. This externship is geared for those students who have taken the Swine Practice rotation, or those who have past experience in the swine production or the swine veterinary profession. During the externship students will accompany a number of swine veterinarians on their daily herd health calls, providing exposure to a variety of swine production facilities and activities fundamental to swine veterinary practice. Students will travel to Steinbach Manitoba, about one hour southeast of Winnipeg for this externship. Appropriate lodging must be arranged with assistance of the on-site supervisor. Students are responsible for the costs of travel, accommodation and food, but are encouraged to apply to the American Association of Swine Veterinarians for financial assistance which is available for student externships.
	 The daily roster will be scheduled by the externship supervisor, and will involve a rotation amongst specialist swine veterinarians from the following swine businesses: Swine Health Professionals – a multi-person swine veterinary practice Contact: Dr. Blaine Tully Maple Leaf Agri-Foods- the pork production division of Maple Leaf Foods. Contact: Dr. Jewel White HyLife Ltd – Canada's largest swine production company. Contact: Dr. Karine Talbot The Progressive Group – a pork production management company. Contact: Dr. Tony Nikkel
	There will be strong emphasis on swine production, preventative

There will be strong emphasis on swine production, preventative medicine and quality assurance. Daily discussions may include but are not necessarily limited to: disease pathogenesis, expression, diagnostics, treatment and prevention; biosecurity; animal welfare; Canadian Pork Excellence (CPE) training and validation; CFIA export certification; semen production; swine production, nutrition and housing. The rotation may include weekend and evening sessions.

Those interested in selecting this externship are strongly recommended to talk to Dr. Harding/Costa prior to the draft. Only students with a sincere interest in swine medicine and production should select this elective.

Maple Creek Veterinary Services – Bovine Obstetrics and Reproduction		
ROTATION CODE:	MPO	
INSTRUCTORS:	Dr. Klea-Ann Wasilow	
DURATION:	2 weeks	
TIMING:	pre-draft application procedure27 - 28March 13, 2023 – March 26, 202329 - 30March 27, 2023 – April 9, 2023	
STUDENT NUMBERS:	1 student per rotation	
DESCRIPTIVE:	MCVS is a rural mixed practice with a strong beef cow-calf caseload. We serve an abundance of commercial beef producers and a small number of purebred breeders. During the chosen weeks of your rotation we will be busy with bovine obstetrics and bull breeding soundness evaluations. We will multiple veterinarians out testing bulls daily while remaining veterinarians cover bovine obstetrical and mixed animal medical cases.	
	 Primary objectives: * Obstetrics skills and post-partum management (prolapses, retained placenta, mastitis). The majority of obstetrical cases will be transported to the clinic although there may be some farm calls. * Surgical skills on C-section cases * Breeding soundness exams on herd bulls both in the clinic and on the farm. (students will spend time palpating, measuring, collecting and reading slides) For a complete experience student are expected to be available for after-hours calls. Secondary objectives: to participate in other aspects of the mixed practice including bovine, equine and small animal caseload and emergency medicine. 2-3 veterinarians will supervise your experience. Students are expected bring clothing suitable for working outside the clinic in cold and wet weather. We encourage students to be prepared by reviewing bovine breeding soundness, pre- and post-partum management, neonatal disease/care, obstetrics and obstetrical surgical notes prior to the rotation. Come armed with questions and a willingness to jump in and assist with our full caseload and you we will have a great rotation! Housing: Room and board will be provided at a charge of \$250 per two weeks. Laundry and kitchen facilities available. You will be responsible for most of your meals, but may be provided some meals with the family of the staff member you are staying with. You will need to bring a lunch on working days in case not in clinic. 	
Maple Creek Veterinary Services – Beef Pregnancy Testing

ROTATION CODE:	MPB			
INSTRUCTORS:	Dr Klea-Ann	Wasilow		
DURATION:	2 weeks			
TIMING:	pre-draft appl 9 – 10 11-12	ication procedure October 24, 2022–November 6, 2022 November 7, 2022- November 20, 2022		
STUDENT NUMBERS:	1 student per	rotation		
DESCRIPTIVE:	MCVS is a rural mixed practice with a strong beef cow-calf caseload. We serve an abundance of commercial beef producers and a small number of purebred breeders. During the chosen weeks of your rotation we have multiple veterinarians out pregnancy testing every day. Our staff veterinarians will average 800-1600 pregnancy tests weekly during these periods and we anticipate a satisfactory caseload. Primary objectives will focus on pregnancy testing and preventive medicine:			
	 Ultrasound image evaluation and familiarity with equipment Palpation skills Exposure to a variety of operations, handling systems, breeds of cattle and routine management procedures (pour on, tagging, vaccination, Client communication) Safe cattle handling and staff chute side safety Opportunity to discuss bovine management and herd health protocols with multiple staff veterinarians. 			
	•	bjectives : to participate in other aspects of the mixed practice including e and small animal caseload and emergency medicine.		

2-3 veterinarians will supervise your experience. **Students are expected bring clothing suitable for palpating in cold weather.** We encourage students to be prepared by reviewing bovine palpation and pregnancy test notes prior to the rotation. Come armed with questions and a willingness to jump in and assist with our full caseload and you we will have a great rotation!

Housing: Room and board will be provided at a charge of \$250 per two weeks. Laundry and kitchen facilities available. You will be responsible for most of your meals, but may be provided some meals with the family of the staff member you are staying with. You will need to bring a lunch on working days in case not in clinic. You will be notified if meals will be provided at specific locations.

ROTATION CODE: MCK **INSTRUCTOR:** 2 weeks **DURATION:** 17 – 18 January 3, 2023 January 15, 2023 TIMING: _ 19 – 20 January 16, 2023 January 29, 2023 23 – 24 February 13, 2023 February 24 (6PM), 2023 STUDENT NUMBERS: 1 students per rotation **DESCRIPTIVE:** McKnight 24 Hour Veterinary Hospital is an emergency and general practice clinic. Students will be assisting doctors during consults, procedures and assist in surgery in an emergency medicine setting. The aim of our program is to provide comprehensive hands-on clinical experience, with the goal to compliment academic work. The program will rely on student-driven learning to improve clinical skills as well as client interactions. Furthermore, since this program is also heavily based on learning, we will ask students to read papers, text book chapters and research topics. If time allows, students will be expected to research a topic or case they were involved in and present it to our team as a learning opportunity. The schedule will include mostly days, although they can also include evenings. Students will be expected to work approximately 40-hour weeks, although this may vary; and will be paired with a veterinarian for the duration of the learning process during which they will be encouraged to participate in all aspects of patient care. The rotation is designed to place the student in an environment where they can function as a veterinarian while directly supervised by a an experienced clinician, and thus prepare them for clinical work. These rotations are designed to allow students, under veterinary supervision, to practice communication skills, problem-solving, and technical skills that they have acquired during their clinical preparation. **Expectations:** Work Hours: Approximately 40 hours, mostly days, some evenings and nights and weekends depending on the rotation **MISCELLANEOUS:** Attire: Extern's own surgical scrubs Housing: Not provided Travel: Students are expected to provide their own means to come to the practice. It is recommended that students have their own car and stay close to downtown area.

McKnight 24 Hour Veterinary Hospital – Calgary, AB

Medical Imaging (Radiology and Ultrasound)

ROTATION CODE:	MI			
INSTRUCTORS:	Dr. S. Sukut, Dr. B Cotter, Dr. A Larkin, Dr. J Gu			
DURATION:	2 weeks			
TIMING:	1 - 2 $3 - 4$ $5 - 6$ $7 - 8$ $9 - 10$ $11 - 12$ $13 - 14$ $15 - 16$ $17 - 18$ $19 - 20$ $21 - 22$ $23 - 24$ $25 - 26$ $27 - 28$ $29 - 30$ $31 - 32$	August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 October 24, 2022 November 7, 2022 November 7, 2022 December 5, 2022 January 3, 2023 January 16, 2023 January 30, 2023 February 13, 2023 February 28, 2023 March 13, 2023 March 27, 2023 April 10, 2023		September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 6, 2022 November 20, 2022 December 4, 2022 December 18, 2022 January 15, 2023 January 29, 2023 February 12, 2023 February 24 (6PM), 2023 March 12, 2023 March 26, 2023 April 9, 2023
STUDENT NUMBERS:	4-6 students	per rotation		
DESCRIPTIVE:	 This course focuses primarily on the making and interpretation of radiographs. The students will work with both large animals and small animals. A detailed schedule of rotation activities will be given to each student on day 1 of the rotation. For instruction in the making of radiographs students are closely supervised by the radiology technologists until they develop enough proficiency to work independently. Ultrasonography including echocardiography is integrated into the casework. Some "hands-on" experience in abdominal sonographic examination is included. In addition to clinical cases a dedicated ultrasound lab occurs during week 1. Small animal MRI studies and small/large animal CT studies are regularly performed, and the students will be introduced to these imaging modalities. The students' analytical skills in image interpretation will be developed by the radiologists through clinical case discussions using a 			

The students' analytical skills in image interpretation will be developed by the radiologists through clinical case discussions using a variety of teaching formats. Rounds will deal with groups of clinicbased cases that the students will discuss. Students will be required to complete a DEPA in this rotation that assesses the student's ability to make a radiographic study.

Rotation grades will be based on ability, attitude, and participation in the handling of the imaging caseload, including the rounds discussions. The DEPA and 2 written examinations will form an additional part of the grade: <u>Interpretive Exam</u>: A Canvas exam which is multiple choice and 1.5 hours in duration will occur at the end of week 2 in which the students will be primarily asked interpretive questions. The student must pass this exam to pass this rotation.

A single two-week medical imaging rotation should meet most students' needs for review and practice of the skills taught in Year II and III, as students are also exposed to case-based medical imaging in many other rotations. A second medical imaging rotation may be approved during the academic year under exceptional circumstances at the discretion of the rotation coordinator.

Nechako Valley Animal Health Services Equine Experience

ROTATION CODE:	NVAHS		
INSTRUCTORS:	Dr. Cori Stephen		
DURATION:	2 weeks		
TIMING:	pre-draft application procedure 5 – 6 September 26, 2022 – October 10, 2022 31 – 32 April 10, 2023 – April 23, 2023		
STUDENT NUMBERS:	1 per rotation		
DESCRIPTIVE:	1 per rotation Nechako Valley Animal Health Services is located in Vanderhoof, BC. Students will accompany Dr. Stephen or an associate veterinarian on daily appointments in the field and in clinic. The rotation will involve almost entirely an equine caseload. Typical equine cases can be expected including routine wellness, field surgeries, dentistry and lameness, as well as emergencies. Students will spend 4 days in Vanderhoof and then will depart with Dr. Stephen for a mobile clinic trip to Terrace BC to provide equine veterinary services in an underserved region. Days will be long and the work will be physically demanding. Those with an interest in general equine practice and dentistry are encouraged to apply.		

Housing:

Housing is provided while on the trip to Terrace. While in Vanderhoof, housing may be available with a member of the clinic team. Students should consult with Dr. Stephen about this.

Okotoks Feedlot Health Management

ROTATION CODE:	OFL		
INSTRUCTOR:	Dr. J. Campbell and N. Erickson		
DURATION:	2 weeks		
TIMING:	9-10 October 24, 2022 – November 6, 2022 (Dates in Okotoks are: October 30-November 5, 2022)		
STUDENT NUMBERS:	4 students		
PREREQUISITE:	A student must have taken the Bovine Nutrition elective (VLAC 493) and Beef Industry elective (VLAC 491).		
DESCRIPTIVE:	This rotation will take place in Okotoks, Alberta and will be based out of the Feedlot Health Management Services veterinary practice. The feedlot externship is only one week in length and students will spend the other week on field service at the WCVM. This is an intensive rotation focused on feedlot production and health management. The rotation will have directed learning experiences in both classroom and field settings with targeted follow-up and discussion of each experience. On most days, approximately ½ of the day will be spent in a classroom setting and the other half of the day will be spent in a field setting. The objective of the classroom exercises will be to provide/review the necessary background material so that the students can get the most out of the field experiences. The objective of the field experiences is to provide veterinary students with exposure to day-to- day feedlot operations so that students can gain an improved understanding of the feedlot production system and to provide hands on experience in performing selected animal health and veterinary procedures such as field necropsy, administration of vaccines, implants and minor surgery. The model of beef production consulting utilized at Feedlot Health Management Services will also be presented with the feedlot production consulting model as the primary example studied. Some funding of student expenses has been obtained in the past from various pharmaceutical company sponsors; however students should be prepared to pay for their food and lodging during this rotation. This is a very intensive one week experience in which the combination of clinical and classroom experiences averages 14-15 hours/day. Only students with a primary focus on food animal production medicine should select this rotation!		
	Students are expected to travel there on the Saturday and start the rotation on the Sunday morning. Travel and food is covered for this rotation, with the hotel being a possible expense.		

Oncology

ROTATION CODE:	ONC
INSTRUCTOR:	Dr. V. MacDonald and Dr. A. Matsuyama
DURATION:	2 weeks
TIMING:	3 - 4 September 12, 2022 - September 25, 2022 5 - 6 September 26, 2022 - October 10, 2022 9 - 10 October 24, 2022 - November 6, 2022 11 - 12 November 7, 2022 - November 20, 2022 13 - 14 November 21, 2022 - December 4, 2022 15 - 16 December 5, 2022 - December 18, 2022 17 - 18 January 3, 2023 - January 15, 2023 19 - 20 January 16, 2023 - January 29, 2023 21 - 22 January 30, 2023 - February 12, 2023 25 - 26 February 13, 2023 - March 12, 2023 27 - 28 March 13, 2023 - March 26, 2023 29 - 30 March 27, 2023 - April 9, 2023 31 - 32 April 10, 2023 - April 23, 2023
STUDENT NUMBERS:	minimum of 2 to a maximum of 3 students per rotation
DESCRIPTIVE:	Cancer is the #1 disease-related cause of death in companion animals in Canada and the US. Many clients will have preconceived notions regarding cancer and the treatment options available for their pets. It is important for every veterinarian (regardless of whether they choose to treat cancer patients in practice) to understand the basic principles of oncology.
	The main objective of this course is for the student to be able to recognize common cancers in companion animals and to understand reasons for staging tests. In addition, the student will learn about treatment options and prognosis, so they will be able to offer this information to clients in practice.
	Students will be assigned to receive cases presented to the Oncology service (medical and radiation) for scheduled appointments, emergency management and in-house transfers. Depending on the cases presented, possible skills/techniques that may be performed by the student include fine needle aspirates, skin/bone biopsies and bone marrow aspirates/biopsy. You will be able to follow your patient the entire time including collecting history, performing physical exam and staying with patient through any diagnostic tests that may be done.

The student will be responsible for any hospitalized cases and radiation outpatients during this course. Duties will include treatments, feeding, client communication, hospital records, collecting and submitting laboratory samples, scheduling other diagnostic tests and being directly involved with decision making about the case.

The rotation will include topic rounds in the morning prior to receiving cases at which time we will cover such things as the most common tumors seen in practice and chemotherapy drugs. Case rounds will be held in the afternoon at which time the student will present their case to the group.

The evaluation of students will be based on all aspects of their performance in the clinic including patient care, ability to work with the oncology team, client communication, technical skills and their preparedness for both topic and case rounds.

Ophthalmology

ROTATION CODE:	OPH			
INSTRUCTOR:	Drs. L. Sandmeyer, Dr. M. Leis			
DURATION:	2 weeks			
TIMING:	S1 - 2 S3 - 4 7 - 8 3 - 4 5 - 6 7 - 8 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 - 32	April 25, 2022 May 9, 2022 October 12, 2021 September 12, 2022 September 26, 2022 October 11, 2022 November 7, 2022 November 7, 2022 December 5, 2022 January 3, 2023 January 16, 2023 January 30, 2023 February 13, 2023 February 28, 2023 March 13, 2023 March 27, 2023 April 10, 2023		May 8, 2022 May 23, 2022 October 24, 2021 September 25, 2022 October 10, 2022 October 23, 2022 November 20, 2022 December 4, 2022 December 18, 2022 January 15, 2023 January 29, 2023 February 12, 2023 February 24 (6PM), 2023 March 12, 2023 March 26, 2023 April 9, 2023
STUDENT NUMBERS:	2 - 4 student	s per rotation		
DESCRIPTIVE:	The ophthalmology service is a referral service within the VMC that consults on small animal, large animal, and exotic animal cases. We provide referral services to veterinarians throughout Western Canada and do internal consults within the hospital. The ophthalmology team on each rotation includes one faculty member, an ophthalmology resident, the ophthalmology technician and the ophthalmology Liaison. The student will develop skills in taking an ocular history and performing a systematic ocular examination. There is no primary emergency call responsibility for this rotation. All weekend and after hour treatments are the responsibility of the students, and these treatments should be shared equally between all members of the group.			

Students will be able to view surgical procedures performed by the ophthalmologist but will not be performing surgery in live animals. Ocular surgeries are usually completed on Tuesdays and Thursdays by the ophthalmologist and the resident. Monday and Wednesday are reserved for clinical consults and pre-surgical examinations. Students are not responsible for discharge notes or surgery reports as these are completed by the ophthalmology resident.

Additional learning materials include several rounds' topics on Canvas that students are expected to complete during the rotation. Quizzes based on these rounds are on Canvas and are also completed in your own time. There is one assignment, which is to choose one of your cases from each week to present to the group. Friday is reserved for Grand Rounds, Ocular Pathology Rounds, and a Dead-Head surgery lab that is completed on the first Friday of the rotation. We will also discuss the Canvas topic rounds and your case-presentation assignments on Fridays.

Your evaluation on the ophthalmology service will be based on three parts: clinical service (50%), quizzes (20%), participation in rounds (10%), and case presentation assignments (20%).

OVC – Dairy Cattle Welfare

ROTATION CODE:	ODC	
INSTRUCTOR:	Drs. D. Haley & T. I	Duffiel
DURATION:	2 weeks	
TIMING:	Weeks S7-S8	June 6 – June 19, 2022 June 6 – 10, 2022 (OVC)
	Weeks 13-14	November 21 – December 4, 2022 November 28- December 2, 2022 (OVC)
	Weeks 21-22	January 30 – February 12, 2022 February 6 - 10, 2023 (OVC)
	**2 nd Week at WCV	M Ruminant Field Service will be in person
STUDENT NUMBERS:	1 students per rotatio	n
PREREQUISITE:	Completion of one R	uminant Field Service rotation.
DESCRIPTIVE:		

<u>First Meeting</u>: When the rotation is held in-person, students will meet at 0830 h (EST) on the first day in a room to be determined.

Goals: The goal of the rotation is to contribute to student Phase-4 competencies by providing learning opportunities in the context of dairy cattle welfare. The rotation aims, in particular, to provide experience in welfare assessment, communication and analytical discussion of key welfare topics important to the dairy cattle industry.

Teaching Objectives:

- Provide the resources to support students development & refinement of knowledge related to veterinary, dairy industry, and legislated standards in place to ensure the well-being of dairy cattle
- Review the fundamentals of practical animal welfare assessment and gain experience assessing farm specific data based on dairy industry animal care guidelines
- Reinforce the veterinarian's role in working with dairy clients to ensure good animal welfare
- Develop & refine general animal welfare knowledge for an entry-level DVM
- Provide opportunities to improve technical & client communication skills required of the entry-level food-animal practitioner.

Teaching & Learning Strategies:

• In-Person: Students will have lectures and discussions with selected faculty from the Ontario Veterinary College (OVC) who have expertise in key areas related to dairy cattle welfare. Students will participate in practical welfare assessments on 2 dairy farms using the proAction Animal Care Module as a guide. A livestock auction market and a veal farm

will also be visited to further understand the welfare of dairy animals beyond the traditional context of the working dairy. Participants will complete assignments which are a mix of independent and small group work. Student directed topics will be encouraged throughout the week to provide participants a sense of ownership over the content and focus on the areas important to entry level veterinarians.

• Online: Using the learning platform, CourseLink, students will have access to prerecorded lectures, suggested readings and related content to accompany lecture topics. The intent of pre-recorded content is to provide students with flexible learning. Zoom, or an equivalent platform, will be utilized for in-person discussions and presentations by faculty and students. In-person sessions are planned to allow students regular, daily check-ins regarding the content and to foster a sense of community in the virtual course. Participants will complete assignments which are a mix of independent and small group work. Student directed topics will be encouraged throughout the week to provide participants a sense of ownership over the content and focus on the areas important to entry level veterinarians.

Evaluation: Evaluation will be performed by the rotation coordinators. The evaluation will reflect the student's performance in the following learning categories/competencies.

- Basic knowledge
- Applied knowledge / assessment skills
- Technical skills / ability to delivery of veterinary care
- Attitude
- Ability to relate to colleagues and clients
- Professionalism
- Overall Performance (grade): Outstanding, Pass, or Fail. Outstanding will be interpreted as recognition that a

student demonstrated evidence of independent self-directed learning & exceeds the competencies expected.

Administrative Considerations:

- Students external to OVC wanting to participate in the rotation will be selected by their home institution when such a process is in place or will be admitted to the program on a first come, first served basis after contacting the Saputo Dairy Care Program <u>Manager</u> <u>dairywel@uoguelph.ca</u> / 519- 824-4120 ext. 54009. Funding is available to visiting students to support travel and accommodations while attending the rotation.
- Visiting students will be required to complete an application form which will be provided by OVC administration once student participation is confirmed.
- When offered online, a stable high-speed internet connection is required for the rotation.
- For in-person teaching, students have steel toe boots (or equivalent protection) and dress appropriately; you will often be working outside as well as in a variety of barn/farm facilities. OVC students must bring at least 2 pairs of clean coveralls. Visiting students can be provided with coveralls if needed. All students will be provided with disposable boot covers.

• <u>SAFETY:</u> Safety is a priority at all times. In order to ensure the safety of all participants, the safety procedures / guidelines provided by the instructors must be followed. It is the responsibility of each student to attend any safety orientation that is provided.

All students in contact with large animals are required by U of Guelph safety policy regulations to wear approved safety boots or shoes. Students will not be permitted to participate in scheduled activities involving large animals if they do not comply.

External students:

Some funding may be available to help defer the cost of their attendance.

For more information contact the Saputo Dairy Care Program Manager, Lena Levison - dairywel@uoguelph.ca / 519-824-4120 ext 54305

Pacific Rim Veterinary Hospital – Port Alberni, BC

ROTATION CODE:	PRIM			
INSTRUCTOR:				
DURATION:	2 weeks			
TIMING:	1-2 15-16	August 29, 2022 December 5, 2022	-	September 11, 2022 December 18, 2022
STUDENT NUMBERS:	1 students pe	r rotation		
DESCRIPTIVE:	Pacific Rim Veterinary Hospital is a general practice located in Port Alberni, BC. Students will assist doctors during routine care appointments, dental procedures and surgeries.			
	Expectations Work Hours:	: Monday-Friday 8:30-5	5:30	
MISCELLANEOUS:	Housing: No	•	vide their	r own means to travel to

Poplar Valley Animal Clinic, Mankota, SK – Bovine OB Rotation

ROTATION CODE:	PVB			
INSTRUCTOR:	Dr. Wendy Schmaltz			
DURATION:	2 weeks			
TIMING:	pre-draft application procedure S1 – 2 April 25, 2022 – May 8, 2022 S5 – 6 May 24, 2022 – June 5, 2022 29 – 30 March 27, 2023 – April 9, 2023 31 – 32 April 10, 2023 – April 23, 2023			June 5, 2022

STUDENT NUMBERS: 1-2 student per rotation

DESCRIPTIVE: This clinic has a large number of cow-calf clients and is very busy in the spring of the year with a wide variety of obstetrical cases as well as breeding soundness examinations of bulls. You will get the opportunity to practice your surgical skills on Csection cases, obstetrics and post-partum conditions such as prolapses. Breeding soundness exams will also be being carried out on herd bulls both in the clinic and on the farm. The majority of obstetrical cases will be transported to the clinic although there may be some farm calls.

> Students will participate in examining and treating patients both on the road and in clinic. The amount of hands-on experience provided will be based on preparedness for the given procedure. Students are encouraged to prepare ahead of time for scheduled calls and to have a basic understanding of common emergencies seen in bovine practice.

> You will need to be available for after-hours calls. There will also be some opportunity to participate in some other aspects of the mixed practice including bovine medicine, sheep medicine/obstetrics, horse cases as well as small animal cases (for those truly interested in mixed animal practice.

There is currently one veterinarian who will supervise your experience.

Housing: Poplar Valley Animal Clinic will assist in finding accommodations..

Poultry Diagnostic & Field Service

ROTATION CODE:	POU		
INSTRUCTOR:	Drs. S. Gomis, Dickson, (poultry extension veterinarian), Wolfgang (VIDO), and Ms. Knezacek (Department of Poultry Science)		
DURATION:	2 weeks		
TIMING:	Weeks 29-30	March 27, 2023 – April 9, 2023	
STUDENT NUMBERS:	2-4 students per rot	ation	
DESCRIPTIVE:	offered once and is o animal production. T poultry industry, dise nutrition related prob broiler, broiler breed	a in Poultry Diagnostic Pathology and Field Service will be pen to four students who have a strong interest in food he objectives are to expose the students to the commercial ease diagnosis, management of disease problems and blems in the field. It will consist of field trips to commercial er, table egg-layer, turkey, duck and gees hatchery, chery, feed mill and the Research Facilities at the Animal and VIDO.	

Cardiology – Pulse Veterinary Specialists & Emergency

ROTATION CODE:	CEDM			
INSTRUCTOR:	Dr. K. Hawkes			
DURATION:	2 weeks			
TIMING:				
STUDENTS:	2 students per rotation			
DESCRIPTIVE:	27 – 28 March 13, 2023 – March 26, 2023			

MISCELLANEOUS: <u>Attire:</u> Extern's own surgical scrubs or lab coat <u>Remuneration:</u> None <u>Housing:</u> Not provided <u>Travel:</u> Students are expected to provide their own means to come to Sherwood Park.

* A student may take this rotation only once.

CONTACTS: Dr. Kim Hawkes (kimh@pulseveterinary.ca)

Regulatory Veterinary Medicine

REG
Dr. Lisa Wayman (CFIA)
2 weeks
Weeks 31-32 April 10 – April 23, 2023
up to 10 students
Information presented will expose students to the roles of veterinarians (private practitioners and federal veterinarians) in disease control, public health and regulatory medicine. This information will be presented through a combination of field training, classroom lectures/discussions, and opportunities for the students to apply their knowledge to disease outbreak and public health scenarios.
Field training includes a tour of a slaughter facility, humane transportation monitoring, TB testing, EIA testing and BSE sampling. Specialty topics include reportable and foreign animal disease emergency management, import/export of animals, animal welfare, biosecurity, meat hygiene and food safety.
All modules for CFIA pre-accreditation are covered in the form of a virtual seminar. Each student who successfully completes this rotation will receive a covering letter which is to be presented to the District Veterinarian when applying for accreditation.
This rotation hosts a series of guest lectures that expose students to the first hand experiences of regulatory veterinarians at the federal and provincial level in Western Canada. Students will gain knowledge of the roles of veterinarians in a variety of agencies and departments including CFIA, Fisheries and Oceans Canada, Public Health Agency of Canada and provincial ministries of agriculture.
Student evaluation is based on completion of a pet export assignment and commentary on a current event/issue related to regulatory medicine in the form of a group presentation. General participation in group discussions, wet labs and rotation activities is also considered.

Remote Clinical Practice Rotation

ROTATION CODE:	SREM
INSTRUCTORS:	Dr. Woodsworth; Dr. Sheehan; Dr. Borchardt; support from small animal surgery, anesthesia and medicine sections and others
DURATION:	2 weeks
TIMING:	S3-4 (May 9-23) – La Ronge S7-8 (June 6-19) – La Ronge 7-8 (October 11-23) – Ile-a-la-Crosse

STUDENT NUMBERS: 8 students at a time

DESCRIPTION:

Purpose:

To provide students with clinical experience in delivering remote area veterinary services, including disease surveillance and prevention, population control and zoonotic disease management. Through classroom discussions and on-site learning, students will gain an understanding of the role of veterinary medicine in the context of socioeconomic determinants of human and animal health. Cultural, economic, geographical, political and social challenges having an impact on service delivery in these communities will be discussed. The importance of veterinary involvement in community initiatives will be discussed with an emphasis on One Health objectives. Students will also participate in community-based research and education programs.

Objectives:

While on rotation, students will:

- Identify and discuss challenges faced by remote communities (animal population management issues, animal welfare issues, public health issues, political and cultural challenges, economic challenges)
- Discuss existing capacity and strengths within communities to address these challenges
- Rationalize the delivery of veterinary or public health services from outside parties
- Formulate strategic plans for clinic setup and service delivery onsite
- Demonstrate entry-level clinical competence and efficiency in performing sterilization surgeries in dogs and cats
- Demonstrate sound judgment and competence in anesthetic maintenance and monitoring during elective surgeries
- Elicit thorough histories through discussions with clients
- Perform complete physical examinations and pre-surgical assessments

- Practice technical skills, time management and professional documentation
- Describe characteristics of diseases commonly seen in remote areas that may not be common in urban small animal practice
- Demonstrate peer teaching skills
- Demonstrate effective communication with clients, peers, instructors and volunteers
- Demonstrate self-awareness, self-regulation and active self-reflection
- Demonstrate cultural curiosity and humility, considering own role in reconciliation in a Canadian context
- Recount the impact of the experience on themselves, the community and the animals through a final oral presentation to veterinary student peers
- Design and deliver interactive presentations for school children as an exercise in community outreach and education

Schedule (subject to change):

Monday – Wednesday: orientation and preparation at WCVM (as much remote delivery as possible)

Wednesday – Thursday: clinic set up and community engagement in host community

Friday – Sunday: Clinic activities in host community
Monday: return to Saskatoon; remainder of day off
Tuesday - Wednesday: unpack; begin debrief
Thursday: detailed debrief; begin work on presentations
Friday: feedback and wrap up discussions; presentations to student peers and
WCVM community at lunch (via Zoom or in person, as pandemic restrictions allow)

Evaluation:

Learners will be evaluated on achievement of the above objectives. Communication skills, planning foresight, cultural humility, knowledge and clinical competencies will be assessed. Working as a team with peers and mentors, learners are expected to demonstrate improved efficiency in patient assessment, surgery and anesthesia through the rotation. In addition to delivering an interactive presentation to school children in the community, learners will be required to engage in reflective discussions with classmates and instructors before and after the clinic. Learners will also deliver a final presentation to their veterinary peers describing the experience and the impact (real or perceived) programs such as these have on communities, animals, veterinarians and volunteers.

Ruminant Neonatal Management

ROTATION CODE:	RNM					
INSTRUCTORS:	Dr. D. Dadarwal					
DURATION:	2 weeks					
TIMING:	Weeks 27-28 March 13, 2023 – March 26, 2023					
STUDENT NUMBERS:	8 students					
PREREQUISITE:	A student must have taken the Bovine Nutrition elective (VLAC 493) or Small Ruminant elective (VINT 438-07) and be registered in Large Animal Medicine.					
DESCRIPTIVE:	This rotation contains extended days and out of hours requirements which are essential components of the clinical experience.					
	We plan to breed around 30 sheep to lamb during the rotation. These ewes will lamb out in two batches, one batch for each week of the rotation. Depending on the plans for the WCVM goats, there is likelihood of having some goats scheduled for kidding during the rotation period as well. The rotation will cover antenatal care, obstetrics, postpartum evaluation of the mother and neonatal care of ruminant species and processing of the lambs. The rotation will include practical hands-on experience and seminars. There will be an on-call schedule to care for the animals. The rotation is well- supported by residents and clinicians (medicine and bovine field service).					

Saskatchewan Provincial Government (Regina)

ROTATION CODE:	SPG			
INSTRUCTOR:	Veterinary Unit			
DURATION:	2 weeks			
TIMING:	7 - 8 9 - 10 11 - 12 13 - 14 19 - 20 29 - 30	October 11, 2022 October 24, 2022 November 7, 2022 November 21, 2022 January 16, 2023 March 27, 2023		October 23, 2022 November 6, 2022 November 20, 2022 December 4, 2022 January 29, 2023 April 9, 2023
STUDENT NUMBERS:	One stude	nt per rotation		
DESCRIPTIVE:	 This rotation provides an overview of the provincial role in animal health and welfare in Saskatchewan, as well as the role of the veterinarian. The student will be provided the opportunity to develop written and oral communication skills as well as to network with Ministry of Agriculture staff. The student will develop an understanding of animal health and welfare from a provincial-federal level as well as from the perspective of a practicing veterinarian in Saskatchewan. Legislative/ Policy: The student will be introduced to the role of government in the development of policies that impact animal health and welfare. The responsibility of veterinarians in contributing to public policy will be highlighted. The student may be given an opportunity to provide input into or to develop animal health policy relevant to issues facing Saskatchewan. The rotation may include a tour of the Legislative building. The student will build an understanding of development of animal health and disease control policies, become familiar with provincial disease response plans as well as understand animal health legislation and reportable/notifiable diseases. 			
	administra adequate p	<u>Animal Welfare:</u> The Ministry of Agriculture is responsible for administration of <i>The Animal Protection Act</i> and ensuring it provide adequate protection of animals and clear direction for animal protection enforcement in the province.		
	expertise of and resour and compa	he role of the veterinarian luring an investigation, leg ces and promoting humane are provincial legislation ar e humane care of animals.	islative e animal	responsibility, networks care practices. Review

Understand the role and authority of the Animal Protection Officer in responding to animal welfare concerns and enforcing *The Animal Protection Act*. Learn how animal welfare enforcement operates in Saskatchewan.

Depending on availability, the student may tour an animal protection agency and meet with an animal protection officer.

<u>Epidemiology:</u> The student will be introduced to the role of public sector veterinarians in the surveillance and management of disease. This may be a real opportunity or an evaluation of a previous disease outbreak. Current disease surveillance activities may be assessed. The student may be given an opportunity to work with some datasets to develop analytic skills.

<u>Foreign Animal Disease:</u> The Ministry is responsible for the development and maintenance of the provincial foreign animal disease plan. The student may be expected to participate in the development and implementation of an emergency exercise. The student may have the opportunity to enhance knowledge of outbreak investigation through completion of Incident Command System training.

<u>Meat Hygiene:</u> The Ministry oversees delivery of meat inspection services in Saskatchewan domestic meat plants. This includes development of Regulations and Standards. The student would have an opportunity to observe the implementation of these regulations and standards in a slaughter plant in Saskatchewan including ante-mortem and post-mortem inspection. Animal welfare and humane slaughter will be a focus during visits to these plants.

<u>Programming:</u> Animal health programming in areas such as chronic wasting disease, anthrax, porcine epidemic diarrhea and rabies require continual development and refinement, as well this provides insight into federal-provincial dynamics. Emerging issues at the national and international level may give this student an opportunity to observe the complex interaction between various provincial governments across Canada and the relationship between government and industry. Externship students will be given an opportunity to evaluate and contribute to development or review of specific animal health programs.

Contacts: Dr. Stephanie Smith (<u>stephanie.smith@gov.sk.ca</u>) and Mikayla Waller (<u>mikayla.waller@gov.sk.ca</u>)

Swine Practice - SK

ROTATION CODE:	SWI1				
INSTRUCTOR:	Drs. J. Harding and M. Costa				
DURATION:	2 weeks				
TIMING:	Weeks 7-8 October 11 - 23, 2022				
STUDENT NUMBERS:	2-5 students				
PREREQUISITE:	Students must have taken the Swine Production Elective (VLAC 439) and be registered in Large Animal Medicine during their clinical year. In special circumstances, students may be permitted enrol in SWI with permission of the instructor following the draft.				
DESCRIPTIVE:	This rotation is meant to provide concentrated studies in swine medicine and modern swine production. Course activities will include herd visits, directed discussions on disease and production, student presentations, hosted technical seminars and web labs. Students will complete a number of assignments enhancing their knowledge of drug usage on swine farms, production records, and gross necropsy.				
	There is a strong emphasis on preventive medicine in all aspects of this rotation. The general concepts discussed and reviewed certainly are applicable to other livestock species.				
	The rotation will include complementary registration at the Western Canadian Association of Swine Veterinarians' Annual Conference in Saskatoon. Attendance at the two-day conference (Thursday/Friday) is mandatory.				
	Because of the limited enrolment, it is encouraged that only students with a sincere interest in swine medicine and production should select this rotation.				
	The rotation may include a 2-3 day trip out of province. Students are responsible for their out of pocket expenses. Lodging will be provided.				

* This rotation is only offered once.

Small Animal Elective Surgery

ROTATION CODE:	SASE,SASE7			
INSTRUCTORS:	Dr. D. de Rantere			
DURATION:	2 weeks			
TIMING:	S7 - 8 3 - 4 7 - 8 11 - 12 15 - 16 19 - 20 23 - 24 27 - 28 31 - 32	June 6, 2022 September 12, 2022 October 11, 2022 November 7, 2022 December 5, 2022 January 16, 2023 February 13, 2023 March 13, 2023 April 10, 2023	- - - - -	June 19, 2022 September 25, 2022 October 23, 2022 November 20, 2022 December 18, 2022 January 29, 2023 February 24 (6PM), 2023 March 26, 2023 April 23, 2023
STUDENT NUMBERS:	4 students pe	er rotation		
	COMPLETI	E SPAY DEPA DURING	6 THIS I	ROTATION
DESCRIPTIVE:	Learning objectives of the electives rotation include development of surgical skills including tissue handling, use of instruments, ensuring adequate knot security, techniques to ensure cosmesis of closure. Learning objectives also include the ability to describe a plan for complications encountered during spays and neuters, description of abdominal anatomy with specific reference to the urogenital tract, and formation of an appropriate post-operative plan for spay and neuter patients. Rounds will take place in the mornings, and will be led by the surgery clinical associate, with some rounds including faculty participation, depending on clinician availability. Rounds topics may include spay complications, neuter complications, ovariectomy vs. ovariohysterectomy, pyometra, c-section, cystotomy and any other topic of interest to the clinicians or students.			
	Students will be evaluated using the results of the spay DEPA and performance on the rotation including patient care, accuracy and thoroughness of the medical record, participation in rounds and surgical skill. Evaluation will be given at mid-rotation, which is at th end of the first week, and written evaluation will be given at the end the rotation. If there is a serious weakness identified at the mid- rotation evaluation, written evaluation will be provided along with parameters for improvement that need to be met in order to achieve passing grad in the rotation.			t care, accuracy and ation in rounds and d-rotation, which is at the will be given at the end of entified at the mid- e provided along with

Students on the electives rotation will be entered into the surgical call schedule with the students who are on the majors rotation. Emergency duty in the clinic on the weekends will also be a part of the rotation.

Small Animal Surgery Majors & Electives

ROTATION CODE:	SAME			
INSTRUCTORS:	Drs. D. de Rantere, K. Aoki, C. Shmon, K. Linn			
DURATION:	2 weeks			
TIMING:	1 – 2 5 – 6 9 – 10 13 – 14 21 – 22 25 – 26 29 – 30	August 29, 2022 September 26, 2022 October 24, 2022 November 21, 2022 January 30, 2023 February 28, 2023 March 27, 2023	-	September 11, 2022 October 10, 2022 November 6, 2022 December 4, 2022 February 12, 2023 March 12, 2023 April 9, 2023
STUDENT NUMBERS:	4 students per rotation			
DESCRIPTIVE:	 This general small animal surgery course is designed to introduce students to fundamental concepts. It will focus on the clinical diagnosis and management of surgical problems observed in small animal practice using clinical cases presented to the Veterinary Medical Centre. Hands on experience will be provided primarily through assistance in major procedures, and through the performance of elective procedures. <u>Objectives</u>: To develop and practice basic problem-solving and diagnostic skills for the management of small animal surgical problems. To learn and practice optimal perioperative patient managements including the recognition and management of surgical complications. To teach students how to apply sound surgical judgement and surgical techniques to patients presenting with surgical diseases. To practice and further refine surgical psychomotor and tissue handling skills. 			
				omotor and tissue handling
	To develop communication skills through the interaction with clients, peers and clinicians.			
	To develop an awareness of practicalities, success and economics of various treatment regimes.			
* Students will be expected to successfully complete and pass a spay OSCE to pass this rotation				

* Students will be expected to successfully complete and pass a spay OSCE to pass this rotation.

* Students may repeat this rotation only once.

Small Animal Medicine

ROTATION CODE:	SAM			
INSTRUCTORS:	Drs. C. Carr, K. Cosford, J. Loewen and E. Snead			
DURATION:	4 weeks			
TIMING:	1 - 4August 29, 2022-September 25, 20225 - 8September 26, 2022-October 23, 20229 - 12October 24, 2022-November 20, 202213 - 16November 21, 2022-December 18, 202217 - 20January 3, 2023-January 29, 202321 - 24January 30, 2023-February 24 (6PM), 202325 - 28February 28, 2023-March 26, 202329 - 32March 27, 2023-April 23, 2023			
STUDENT NUMBERS:	8-10 students per rotation			
DESCRIPTIVE:	The main objective of this course is to have the student learn to practice clinical small animal medicine. The student will work together with clinical faculty and house officers to manage patients presented to the Small Animal Clinic of the Veterinary Medical Centre. The student will develop the observational and communicative skills necessary to interact with pet owners and collect relevant clinical information. The student will learn to handle, restrain and examine dogs and cats and will develop the manual and technical skills required for diagnosis and treatment of these animals. The student will learn and practice a logical, problem-oriented analytic approach to making clinical decisions relating to diagnosis, prognosis, management and disease control.			
	Students will be assigned to receive cases presented to the Small Animal Clinic for scheduled appointments and emergency management. The students will be responsible for all aspects of management of their hospitalized cases, 24 hours a day, seven days a week. This will include all treatments, feeding, maintaining hospital records, collecting and submitting samples for laboratory analysis, interpreting diagnostic test results, communicating with owners and participating in decision-making about their cases. Morning rounds will be held daily (Monday to Friday) in the rounds seminar room, with one case being presented to the group by a student on the rotation. Afternoon case rounds will take place on Monday, Wednesday and Friday in the clinic. There will be two written examinations during the course of the rotation. The student will be required to keep a written log of all cases managed during the rotation.			

The evaluation of students will be based upon all aspects of their performance in the clinic, their preparedness for rounds presentations and discussions and their examination scores.

Small Animal Nutrition and Rehabilitation Joint Rotation

ROTATION CODE:	SANR			
INSTRUCTORS:	Dr. T. Owens, Dr. R Pinto, Dr. K. Penney			
DURATION:	2 weeks			
TIMING:	5 - 6September 26, 2022-October 10, 20229 - 10October 24, 2022-November 6, 202229 - 30March 27, 2023-April 9, 2023			
STUDENT NUMBERS:	2-4 students per rotation			
DESCRIPTIVE:	Students will spend 1 week with the rehabilitation service and 1 week with the nutrition service. In some cases (e.g. osteoarthritis management, weight loss), rounds topics may be integrated with both services participating. Some cases may be managed or need consultation with both services, fostering a more integrative approach.			
	REHABILITATION SECTION			
	Daily activities will consist of topic rounds as well as participation in the treatment of clinical rehabilitation cases. In comparison to the full canine rehabilitation rotation, this rotation will cover fewer topics related to rehabilitation with more of a focus on common conditions encountered in general practice.			
	Rotation hours are generally from 8:00 am to 5:00 pm Monday to Friday, however, some patient care for in-hospital patients may be required evenings and weekends. One day of the week, students will be required to stay late for appointments. There will be no on-call duties.			
	A review of canine applied anatomy, particularly bones and muscles is required prior to the start of the rotation.			
	Grading will be based on rounds participation, skill in rehabilitation patient evaluation and treatment, patient care and attitude.			
	 Goals: to become familiar with the approach to rehabilitation of cases involving post-operative orthopedics, neurologic cases, osteoarthritis cases and soft tissue injuries to perform initial evaluations on clinical cases and formulate treatment plans with the guidance of a rehabilitation clinician to become competent with basic techniques such as massage, passive range of motion, stretching and rhythmic stabilization to understand the use of modalities such as heat, ice, therapeutic 			

ultrasound, acupuncture, E-stim and low-level laser

• to understand the application of therapeutic exercises such as cavelettis, sit to stands and the underwater treadmill

On completion of the rotation, students should be familiar with many of the concepts in rehabilitation, however, it is still recommended that those interested in practicing rehabilitation medicine take further training and become certified practitioners.

NUTRITION SECTION

Rotation hours are standard; however, majority of case work may occur in the mornings, with portions of the day left for self-directed learning, research, case-prep and planning. Exact scheduling may vary with exact rotation dates.

The rotation will focus on practical application of small animal nutrition principles to common scenarios in practice. The overarching goal is for the student to gain proficiency in nutrition related competencies expected of graduating veterinarians, as established by the ACVN. Collection of accurate diet histories, analysis of current diet and formulating recommendations will be key to all appointments. Working with other services will necessitate learning and awareness of dietary recommendations contraindications to certain and to differentiate cases where recommendations can be made based on already available information (compared to cases where a more thorough extended nutritional evaluation is indicated).

A combination of topic rounds, nutrition focused projects, self-directed learning, and clinical cases presenting to the VMC will be utilized to achieve this. Preference will be given to the use of clinical case management; however, exact content may vary with the interests of the students on rotation and the available case load.

In comparison to the full nutrition rotation, this rotation will likely cover fewer nutritional topics overall. General topics covered with, therefore, focus more on the most common conditions encountered in general practice, with more in-depth review of those that overlap with rehabilitation (e.g. obesity, osteoarthritis, muscle loss, senior pet nutrition, etc.). Other types of cases/topics reviewed by individual students will then depend on case presentations within the hospital and appointment scheduling.

Emphasis will be placed on learning related to common nutritionallymanaged diseases such as obesity, renal/urinary disease, adverse food reactions, and gastrointestinal disease. Dealing with more complex cases is likely; however, learning objectives for students will be focused on application of principles universal to case management expected for general practice or entry into an internship. The nutrition service may also be asked to assist or consult on hospitalized cases in other services to provide in-hospital feeding recommendations/plans and assisted feeding (tube) plans as needed. The nutrition service also works with other services within the hospital to provide support and recommendations for their patients.

Goals:

• Develop confidence in nutritional management of common diseases/issues

• Review basic nutritional principles and core competencies (diet history, body and muscle condition scoring, recognizing potential problems and need for extended evaluations, etc.)

• Review pathophysiology of common nutritionally-related diseases and be able to explain principles of nutrition management

• Gain familiarity and competence with utilizing available resources to manage nutrition-responsive diseases

• Develop confidence and comfort communicating with clients and answering common nutrition-related questions from pet owners.

Small Animal Surgery 2

ROTATION CODE:	SA2				
INSTRUCTORS:	Drs. K. Aoki (co-ordinator), Dr. C. Shmon, Dr. K. Linn				
DURATION:	2 weeks	2 weeks			
TIMING:	1 - 2 $3 - 4$ $7 - 8$ $11 - 12$ $15 - 16$ $17 - 18$ $19 - 20$ $23 - 24$ $27 - 28$ $31 - 32$	August 30, 2021 September 12, 2022 October 11, 2022 November 7, 2022 December 5, 2022 January 3, 2023 January 16, 2023 February 13, 2023 March 13, 2023 April 10, 2023	 	September 12, 2021 September 25, 2022 October 23, 2022 November 20, 2022 December 18, 2022 January 15, 2023 January 29, 2023 February 24 (6PM), 2023 March 26, 2023 April 23, 2023	
STUDENT NUMBERS:	3-5 students	s per rotation			
DESCRIPTIVE:	This general small animal surgery course is designed to introduce students to fundamental concepts. It will focus on the clinical diagnosis and management of surgical problems observed in small animal practice using clinical cases presented to the Veterinary Medical Centre. Hands on experience will be provided primarily through assistance in major procedures. Students desiring a more intensive experience in small animal surgery should select the Small Animal Surgery Electives rotation or repeat this rotation.				
	<u>Objectives</u> : To develop and practice basic problem-solving and diagnostic skills the management of small animal surgical problems.				
	To learn and practice optimal perioperative patient managements including the recognition and management of surgical complications. To teach students how to apply sound surgical judgement and surgical techniques to patients presenting with surgical diseases.				
	To develop communication skills through the interaction with clients, peers and clinicians.				
	To develop an awareness of practicalities, success and economics various treatment regimes.			ccess and economics of	

Small Ruminant

ROTATION CODE:	SR				
INSTRUCTORS:	Dr. C. Clark				
DURATION:	2 weeks				
TIMING:	Weeks 25 – 26	February 28, 2023	March 12, 2023		
PREREQUISITE:	A student must have a 07).	taken the Small Ruminant electi	ve (VINT 438-		
COREQUISITE:	·	e scheduled in Large Animal Me	dicine.		
STUDENT NUMBERS:	8 students per rotation				
DESCRIPTIVE:	This course is meant to provide an in-depth examination of the sheep and goat industry in this area. Course activities will include a review of nutrition of sheep and goats, clinical cases, general sheep management, flock health programs, ultrasonography of ewes (if any are available at the appropriate stage of gestation), ram fertility evaluation, and selected field trips.				
	Each student will be required to make a presentation at the end of the rotation on an industries topic of interest. The topics will be given out at the beginning of the rotation. Travel expenses including the cost of meals and hotels are at the expense of the student.				

This course is not recommended for pregnant students.
South Burnaby Veterinary Hospital – Burnaby, BC

ROTATION CODE:	SBURN			
INSTRUCTOR:				
DURATION:	2 weeks			
TIMING:	5-6 15 – 16 19-20	September 26, 2022 December 5, 2022 January 30, 2023		October 10, 2022 December 18, 2022 February 12, 2023
STUDENT NUMBERS:	1 students pe	er rotation		
DESCRIPTIVE:	South Burnaby Veterinary Hospital is a general practice located in Burnaby, BC. Students will assist doctors during routine and urgent care appointments, dental procedures and surgeries.			
	Expectations Work Hours:	: 10 hour shifts 4 days a	a week, i	no overnights
MISCELLANEOUS:	Housing: No	*		s casual r own means to travel to

* A student may take this rotation only once.

South West Animal Health Centre, Swift Current

ROTATION CODE:	SWAHC
INSTRUCTOR:	Dr. G. Griffin
DURATION:	2 weeks
TIMING:	pre-draft application procedure Beginning of April (1 student) – heavy obstetrical case load and semen testing End of April (1 student) – heavy obstetrical case load and semen testing
STUDENT NUMBERS:	One student per rotation
DESCRIPTIVE:	Students will accompany a vet throughout their rotation leading or assisting in all cases seen by the veterinarian. Students will be expected to take call 50% of the nights/weekends during their rotation. Depending on the time of year cases may include:
	 Bovine obstetrics (malpresentations, caesareans, vaginal prolapses, uterine prolapses) Semen testing Bovine neonatal care

Housing: Accommodations **may** be available in the clinic.

Strathmore Veterinary Clinic – Strathmore, AB

ROTATION CODE:	STRATH			
INSTRUCTOR:				
DURATION:	2 weeks			
TIMING:	19 – 20 27 – 28	January 16, 2023 March 13, 2023	-	January 29, 2023 March 26, 2023
STUDENT NUMBERS:	1 students pe	r rotation		
DESCRIPTIVE:	Strathmore Veterinary Clinic is a general practice located in Strathmore, AB. Students will be assisting doctors during routine appointments, dentals and surgeries of companion animals.			
			- 6 pm, c	open Saturday's 9 am - 2
MISCELLANEOUS:	Housing: No	rn's own surgical scrubs/ ot provided. There are se ents are expected to prov	everal ho	

* A student may take this rotation only once.

Sunrise Veterinary Clinic

ROTATION CODE:	SVC			
INSTRUCTORS:	Dr. C. Ruiz, Dr. A. Ruiz			
DURATION:	2 weeks			
TIMING:	application basedS1 - 2April 25, 2022May 8, 2022S13 - 14July 18, 2022August 1, 20223 - 4September 12, 2022September 25, 202211 - 12November 7, 2022November 20, 202219 - 20January 16, 2023January 29, 202325 - 26February 28, 2023March 12, 2023			
STUDENT NUMBERS:	1 students per rotation			
DESCRIPTIVE:	A "from the trenches" glimpse of how veterinary medicine work-life- balance can be achieved in private practice at Sunrise Veterinary Clinic in Comox, BC.			
	Veterinary medicine has an unsustainable trend of losing veterinarians, especially women, after starting a family, due to an inability to balance family life and career. Innovation and creativity are essential to developing creative solutions for this quagmire, especially in the current veterinarian shortage. During the family practice rotation, you will have opportunity to			
	expand your skill set in various areas of small animal and exotics practice including medicine, surgery, dentistry, dermatology and preventive care, on a gold-standard general practice level.			
	Balancing family and veterinary medicine can be both possible and rewarding. The "family practice" rotation is led by a husband-and-wife vet couple who have forged their own path and made a way for their family of 6 to homeschool and thrive while also leading successful and fulfilling veterinary careers. They are keen to share their experiences and mentor the next generation of veterinarians to be entrepreneurs and innovators for the sake of their own families and our beloved profession.			
	Students can stay in the room above the clinic for no charge (no shower or kitchen, but within walking distance of many restaurants and grocery store) or provide their own accommodations.			

* A student may take this rotation only once.

<u>Toronto Humane Society Shelter Medicine</u> <u>Rotation Information Package</u>

Updated May 26, 2021 – KW

Updated Sept 21 2021- DB

Updated Dec 13th 2021 - RF

General Information:

Instructors (are subject to change over time):

Dr. Laura Balanoff (Staff Veterinarian, Interim Curriculum Organizer)

Dr. Danielle Boes (Staff Veterinarian, Shelter Medicine Rotation Curriculum Organizer)

Dr. Karen Ward (Chief Veterinary Officer)

Dr. Linda Jacobson (Senior Manager, Shelter Medicine Advancement)

Shelter DVM:

- Dr. Zaki Jafry (Staff Veterinarian)
- Dr. Elva Ma (Staff Veterinarian)
- Dr. Sophia Marin (Staff Veterinarian)
- Dr. Cynthia Minter (Staff Veterinarian)
- Dr. Wesley Cheung (Staff Veterinarian)
- Dr. Megan Haines (Staff Veterinarian)

Public veterinary Service DVM:

- Dr. Kristen Jacques (Staff Veterinarian)
- Dr. Lindsay Lane (Staff Veterinarian)
- Dr. Dorothy Pham (Staff Veterinarian)
- Dr. Breanne Poirier (Staff Veterinarian)
- Dr. Jo Cootes (Veterinarian)
- Dr. Jamie Freeman-Braganca (Staff Veterinarian)

Main contacts for rotation information:

Dr. Danielle Boes, Rotation Curriculum Organizer, <u>dboes@torontohumanesociety.com</u> (on parental leave from Oct 2021-Feb 2023)

- Dr. Laura Balanoff, Interim Curriculum Organizer Ibalanoff@torontohumanesociety.com
- Ms. Rachel Fortin RVT, Rotation Scheduler, rfortin@torontohumanesociety.com

Dr. Karen Ward, Chief Veterinary Officer, <u>kward@torontohumanesociety.com</u>

COVID-19 UPDATE:

The COVID pandemic has had a large impact on shelter organization and function which includes student rotations placements. Any scheduled student rotation could be cancelled or rescheduled if deemed

necessary for the safety of staff, volunteers, adopters and the public in general. Any student that is on site at THS is required to be fully vaccinated for COVID and provide proof of this vaccination prior to coming on site. All students will be required to answer a screening questionnaire each morning before their scheduled shift.

In light of the many adjustments needed to address safety and COVID -19, the student schedules as listed below may not be representative of what services the students will actually be scheduled for. The overall goal of the rotation at THS is to provide well rounded exposure to shelter medicine and community outreach. There will be opportunities for surgical experience however this is not the main focus of the rotation at THS. Students wanting a rotation experience with a mostly surgical focus and a large amount of surgery time should consider an alternative placement.

Shelter address:

11 River St. Toronto ON M5A 4C2 Located at the corner of Queen St. East and River St. In the neighbourhood of Corktown and Regent Park

Rotation duration:

Varies from 1 day to 2 week placements depending on the availability and needs of the student and shelter capacity.

Dates available:

January to April and September to December

During the summer months with kitten season, the shelter gets extremely busy. Rotations scheduled outside of May-Aug are best to allow time to properly mentor students.

Student numbers:

Ideal to have 2 students at a time per rotation. Exceptions will be considered for single student placement on a case by case basis.

First day info:

Please arrive to the front doors of the shelter (on River St) at the scheduled time which will be relayed in advance to the student depending on the service. If it is before 11am, the front doors will be locked still. You can contact a supervisor at 416-392-2273 x 2190 to be let in. The supervisor will show you to the vet's office where you will meet the vet you are on service with that day. Morning rounds start at 10am each day.

The shelter is easily accessible by public transport and there is a THS parking lot behind the shelter. Parking is free there but it is first come first serve and can fill up quickly. Be sure to read signage before parking to avoid a parking ticket.

Accommodations:

If accommodations are needed in the city, students can consider:

- Renting an Airbnb or other short term rental
- Booking a hotel room. Hotwire sometimes has deals on their website
- Staying with friends or family member(s)

Rotation description:

Open to all veterinary students along with veterinary interns who would like to gain more exposure to and are interested in animal welfare, shelter medicine and community veterinary practice.

Rotation goals:

- 1. Broad overview of shelter medicine, its challenges and rewards
- 2. Exposure to a busy, well-resourced shelter with capacity for extensive surgical and medical case management
- 3. Understanding how sheltering best practices improve health, welfare, length of stay and lifesaving capacity
- 4. Exposure to population management and pathway planning in shelters
- 5. Exposure to common medical and behavioural reasons for relinquishment and how to manage them in an animal shelter
- 6. Understanding the roles of both shelter veterinarians and private practice veterinarians in creating a humane society
- 7. Exposure to accessible public veterinary care

Rotation components:

- 1. INTAKE
 - a. All animals arriving at the shelter receive a complete physical exam, assessment, intake procedures and pathway plan
 - b. Includes foster exams, newly adopted, strays, emergencies, surrenders and transfers
- 2. FELINE MEDICINE
 - a. All medicine shifts include:
 - i. Rounds
 - ii. Case work up and management
 - iii. Full in house lab including fungal culture lab, digital radiography, ultrasound
 - iv. Assessment and interpretation of diagnostics

- v. Infectious disease prevention and management
- vi. Population management
- 3. SPECIAL SPECIES MEDICINE
- 4. CANINE MEDICINE
- 5. HIGH-VOLUME-HIGH-QUALITY SPAY-NEUTER SURGERY
 - a. Based on the Humane Alliance model
 - b. Services a combination of owned animals, rescue and shelter animals
 - c. 5,600 spay/neuter surgeries performed in 2018
- 6. SHELTER SURGERY
 - a. A wide variety of surgical procedures, including but not limited to
 - i. Feline and canine (both pediatric and adult) spay and neuter
 - ii. Rabbit spays/neuters and dentals
 - iii. Feline and canine dentistry including digital dental radiography
 - iv. Gastrotomy, enterotomy
 - v. Cystotomy
 - vi. Mass removals
 - vii. Amputations
 - viii. FHO
 - ix. Enucleation, cherry eye repair, entropion/ectropion correction
- 7. PUBLIC VETERINARY SERVICES
 - a. Vaccinations, wellness exams and blood work, pre-surgical and pre-dental consultations, owner-requested euthanasias, post-operative concerns, amongst others
- 8. CANINE TRAINING DEPARTMENT
 - a. Public training classes, shelter training classes, behaviour modification plans
 - b. In-shelter enrichment plans
 - c. Most of our trainers are CPDT-KA certified, or tracking towards certification
- 9. FELINE TRAINING DEPARTMENT
 - a. In-shelter and foster home training and enrichment plans, behaviour modification
 - b. Department led by Dr. Jacklyn Ellis, Animal Behaviour Scientist
 - c. Managing litterbox concerns, including inappropriate urination & defecation
- 10. LABORATORY
 - a. Exposure to our in-house IDEXX lab with dedicated RVT; CBC, Chemistries, cytology, fecals, urinalysis, fungal cultures
- 11. ADOPTIONS
 - a. New hire presentation on "Adopters Welcome"

<u>NOTE:</u>** Participation in some of the above components will be based on time allowance and shelter capacity. Longer placements will allow for exposure to more of the components.

Resources to review prior to the rotation:

Please watch the following videos:

- The first 60 minutes webinar by Dr. Brian DiGangi
 - o <u>https://www.maddiesfund.org/the-first-60-minutes-webcast.htm</u>
- Flow through planning webinar by Dr. Elizabeth Berliner
 - o <u>https://www.maddiesfund.org/in-one-door-and-out-the-other.htm</u>
- Making the case for a paradigm shift in community cat management by Dr. Kate Hurley
 - o <u>https://www.maddiesfund.org/making-the-case-for-community-cats-part-one.htmaksfkdsaj</u>
- RAVS basic surgery skills practice videos:
 - o <u>http://www.ruralareavet.org/training_av.php</u>
- ASPCA Humane Alliance youtube videos:
 - o Pedicle ties: <u>https://www.youtube.com/watch?v=scutiRrHtQI</u>
 - Puppy scrotal neuter: <u>https://www.youtube.com/watch?v=WqwLHiSnboQ</u>
 - Modified miller's knot (aka "strangle knot" per ASPCA): <u>https://www.youtube.com/watch?v=vUJR5zj2Pyo</u>
 - o Incision placement: <u>https://www.youtube.com/watch?v=q9Z0pr2xBsQ</u>
 - Spay hook use: <u>https://www.youtube.com/watch?v=_6HNz6RzMRE</u>

Please browse and be familiar with generally (don't need to study/memorize these documents!):

- The Association of Shelter Veterinarians (ASV) Guidelines for Standards of Care in Animal Shelters
 - o https://www.sheltervet.org/assets/docs/shelter-standards-oct2011-wforward.pdf
- The Association of Shelter Veterinarians (ASV) Spay Neuter Guidelines
 - https://avmajournals.avma.org/doi/pdf/10.2460/javma.249.2.165Jshgfkas
- Toronto Humane Society Protocols on Dropbox. Students will be given access given email to the THS Dropbox files. Please browse/be familiar with the following protocols in order of importance:
 - Vaccination protocols
 - o URI
 - o Kennel cough
 - o Diarrhea (acute)
 - o Kitten protocols
 - o Ringworm
 - o FeLV
 - o FIV
 - o Inappropriate urination
 - o Inappropriate defecation
 - Parvovirus (feline and canine)
 - GI parasites generally (i.e. coccidia, roundworms, hookworms etc)

Please visit these websites:

- Ontario Shelter Medicine Association (OSMA)
 - o https://www.ontariosheltermedicine.org/
- Maddie's Fund
 - o https://www.maddiesfund.org/index.htm

- ASPCA Spay and Neuter Alliance (formally Humane Alliance)
 - o https://www.aspca.org/humane-alliance
- Association of Shelter Veterinarians (ASV)
 - o https://www.sheltervet.org/
- University of Florida Shelter Medicine Online Courses
 - o https://onlinesheltermedicine.vetmed.ufl.edu/Kjashlfkjsha

Talent LMS THS online training needed prior to rotation:

• WHIMIS

 * this is the main course that MUST be completed prior to the rotation, the other courses would be more for interest

- Risk injury prevention
- Rabies observation
- Hazard identification
- Infectious disease control
- Radiation

Tentative Student Scheduling:

One day student placements:

Time	Service
7am-7:30am	Shelter tour
7:30-10:30am	Main clinic shelter surgery service
10:30am-2pm	Feline medicine service
2-3pm	Late lunch – please bring snacks for throughout the day prior to this
3-6pm	Intake service
Two day student plac	ements:
Day 1:	
Time	Service
9am-9:30am	Shelter tour
9:30am-2pm	Feline or canine medicine service
2-3pm	Lunch
3-6pm	Intake service
Day 2:	
Time	Service
7am-12pm	Main clinic surgery service
12-1pm	Lunch
1-4pm	Feline or canine medicine service (whichever wasn't done the day before)

One week student rotation:

- Monday-Friday placement typically (exceptions could be made on a case by case basis)
- Shelter tour on the first day

- Two sets of rounds as detailed below (case-based and ASV Shelter Guidelines)
- One day of:
 - o Intake service
 - o Feline medicine service
 - o Canine medicine service
 - Main clinic shelter surgery service
 - o Spay and neuter clinic service

Two week student rotation:

- Monday-Friday placement typically (exceptions could be made on a case by case basis)
- Shelter tour on the first day
- Rounds as scheduled below (case-based, ASV Shelter Guidelines and ASV Spay and Neuter Guidelines)
- Two days (ideally in a row) of:
 - o Intake service
 - o Feline medicine service
 - o Canine medicine service
- One day of:
 - o Main clinic shelter surgery service
 - Spay and neuter clinic service
 - o +/- Public veterinary services appointments or surgery (when program is fully running)
 - o Canine and feline training departments with certified trainers or Dr. Jacklyn Ellis
- Half day of:
 - o Laboratory training with Laboratory and Pharmacy RVT Lauren McIntyre
 - Will be scheduled on either a Wednesday or Friday
- Approximately 1 hours of:
 - Presentation on "Adopters Welcome" by Greg Ratelle who is the Senior Manager, Client Care

Intern schedule:

Monday	Tuesday - Friday
9am: Shelter tour	3 days in MC surgery and 1 day in SNC surgery
~9:30 -2pm: Feline medicine	service. SNC day will be later in the week (Thurs
2-3pm: Lunch	or Fri ideally).
3-6pm: Intake	

Rounds schedule and info:

There will be ideally 2-3 sets of rounds as outlined below which will take place during the rotation week. The student will be advised ahead of the rotation as to the dates of the rounds which will vary depending on the student's schedule. The rounds will typically be held with the veterinarian you are on service with that day. Time of rounds may vary based on the shelter schedule and service needs that day (i.e. in the morning, over lunch time, at the end of the day etc.). The length of the rounds will be ~30 - 60mins. The rounds will be an informal discussion that the student will lead (PowerPoint presentations not required!).

The type of rounds are outlined as below.

- 1. Case-based rounds:
 - The student will pick a specific shelter-focused case or topic that they have encountered or are interested in learning more about.
 - Examples could include: shelter flow, intake procedures and recommendations, outbreak management, hemoabdomen, ringworm, upper respiratory infection and canine infectious respiratory disease complex, FELV/FIV etc.
- 2. Association of Shelter Veterinarian (ASV) Guidelines for Standards of Care in Animal Shelters:
 - The document can be found here: https://www.sheltervet.org/assets/docs/shelterstandards-oct2011-wforward.pdf
 - The student will read the introduction and one topic of their choice (i.e. Population Management, Medical Healthy and Physical Well-being, Euthanasia etc) from the document.
 - The student will then relay the interesting and important info they learned from their sections.

For 2-week rotation students there will be an additional third set of rounds as below. For veterinary interns, whose focus of the rotation is more surgical in nature, there will be one set of rounds as below. This rounds topic will scheduled in the same manner as the rounds details above.

- 3. Association of Shelter Veterinarian (ASV) Veterinary Medical Care Guidelines for Spay-Neuter Programs (for veterinary interns on rotation)
 - The document can be found here: https://avmajournals.avma.org/doi/pdf/10.2460/javma.249.2.165Jshgfkas
 - The student will read the document and will discuss ~10 interesting and/or important pieces of information that they learned.

Surgical information for student/interns on rotation:

Some information and materials in this section were adapted with permission from RAVS

In order of priority, the goals of the THS surgical team(s) while there are student(s) on rotation are:

- provide safe and efficient surgeries for the animals in our care
- provide mentored surgical opportunities

We aim to reach these goals while still completing the assigned daily duties and tasks at the shelter.

Student surgical participation will be **determined by 4 factors**:

1) health and safety needs of the patient

- 2) the case load and tasks to be completed for that day
- 3) the surgical and teaching comfort level of the attending THS veterinarian

4) the student's learning goals and skill level

Ultimately the level of participation for each procedure is determined on a case-by-case basis at the discretion of the attending THS veterinarian working with the student.

It is expected that students will dedicate sufficient time for reviewing relevant surgery information and practicing their surgery techniques and skills prior to the rotation.

Rough surgical time limit guidelines for each surgery ensure teaching does not supersede patient welfare. Surgical time limits are maximums, not goals. It is the responsibility of both the attending THS veterinarian and student to be mindful of the surgery timelines.

Surgical Time Limits:

- Canine Spay: 45 minutes or less
- Canine Neuter: 20 minutes or less
- Feline Spay: 30 minutes or less
- Feline Neuter: 10 minutes or less
- Pediatric surgeries in animals less than 6 months of age should be about half of the above times (thus student involvement maybe less in these cases)
- Other cases: as determined by the attending veterinarian

Procedure limits:

- In stable patients where time allows, students will be given 2 opportunities to perform
 procedures. For example, 2 attempts to place an IVC in the SAME LEG or 2 attempts to place an
 ET tube.
- If these attempts are unsuccessful, the RVT or DVM will take over

Expedited Cases: There will be cases considered non-teaching (no active student participation other than observation), either due to patient health status and/or due to caseload timing. A teaching case may be converted to a non-teaching case if patient status changes under anaesthesia or the patient's surgical status is requiring a lengthier surgical time due to intra-operative challenges or complications.

In order to meet our goals and timelines as indicated above the following steps should be taken by the student and the THS attending veterinarian in the morning of your scheduled surgery day:

- Discuss the student's previous placements, experience and comfort level
- Together estimate which of the colour coded levels the student would fall info (GREEN, BLUE or BLACK)
- Decide on 3-5 specific learning goals both for surgery and aesthetic for the day based on the case load, surgery schedule and the student's skills and experience
 - Common surgical goal examples may include:
 - Using a spay hook to locate the uterus
 - Performing millers knot(s)
 - Improving incision placement
 - Placing a tattoo
 - Improving intradermal skin closure

- Below is a more extensive list of common surgical skills that could be potential goals
- Ahead of each surgical case, the student and the THS attending veterinarian should
 - o Discuss the case specific aesthetic protocol and considerations
 - o Discuss specific induction and recovery considerations
 - Discuss possible complications and how one would address them
 - The student should verbally walk through the entire surgery with the veterinarian
 - i.e. First I will make a skin incision in the middle third of the ventral abdomen between the pubis and umbilicus. Then I will bluntly dissect the SQ tissue to expose the linea. etc

Active Observer (Level 1 - GREEN)

- Feline Neuter: manipulate testicles into scrotum, apply tension on skin, incise scrotum over testicle, exteriorize testicle and spermatic cord and remove fascia, use blade to cut spermatic cord against clamp, (DVM performs ligation), tattoo
- Canine Neuter: manipulate testicle in pre-scrotal position, apply tension on skin, incise skin over testicle, exteriorize testicle and spermatic cord and remove fascia, place and remove clamps from spermatic cord, use blade to cut spermatic cord against clamps, cut suture (DVM ligates/sutures), tattoo
- Feline or Canine Spay: skin incision, blunt and sharp dissection of subcutaneous tissue, identify linea alba, practice tenting up the linea (vet enters abdomen), palpate inside abdomen through incision, use spay hook on right side of patient to retrieve uterus, palpate suspensory ligament (vet stretches or breaks down), place and remove clamps, use blade to cut tissue against clamps, cut suture (DVM ligates/sutures), tattoo

Assistant Surgeon (Level 2 - BLUE)

- Blue Learning Goals = Green level skills PLUS:
- Feline Neuter: Perform figure 8 knot
- Canine Neuter: place 1 of 2 ligatures on spermatic cords, suture subcutaneous tissue & skin
- Feline Spay or Canine Spay: place 1 of 2 ligatures at each location, suture subcutaneous tissue & skin

Mentored Surgeon (Level 3 - BLACK)

- Black Learning Goals = Green and Blue level skills, PLUS:
- Start procedure at beginning & work for defined time
- Start procedure at halfway point & work for defined time
- Focus on challenging parts of procedure Exteriorize testicle, entering/closing abdomen, suspensories, friable tissue handling
- Place both ligatures on neuters and spays
- Learn high volume techniques with a staff member or other experienced HQHV surgeon

Typically students can expect on a THS rotation placement to be scheduled for 1 surgery day in the main clinic of the shelter and 1 surgery day in the Public Veterinary Service (PVS) spay and neuter clinic (SNC). This is subject to change depending on the shelter scheduling and shelter needs.

Main clinic shelter service:

- range of 3-30 scheduled surgeries depending on the species and type of surgeries and surgeon on staff
- surgeries can include pediatric or adult spays and neuters, enucleations, cystotomies, amputations, FHO, dental surgeries, wound explores/repairs, pyometras etc
- completed on shelter animals

PVS SNC clinic service:

- there are three different clinics that run out of the SNC
 - 1. High quality high volume (HQHV) straight forward spays and neuters on healthy young cats or dogs under 7 years old
 - a. Typically 10-30 surgeries are scheduled for this clinic/day
 - 2. High quality low volume (HQLV) spays, neuters, hernia repairs, cryptorchid neuters on animals that could be older than 7 and/or under or overweight, typically surgeries that are declined from the HQHV clinic
 - a. Typically 3-10 surgeries are scheduled for this clinic/day
 - 3. Dental surgeries ranging from COHAT 1-5
 - a. Typically 1-3 surgeries are scheduled for this clinic/day
- Trap neuter return (TNR) cat surgeries are also completed at the end of the day in one of the three clinics as needed
- surgeries are performed on public owned animals thus obtaining informed owner consent is critical
- on the consent forms that the owner's fill out in the morning of the surgery, there are checkboxes for the owner to initial
- one checkbox indicates that they consent to a student or intern completing or assisting in the surgery under supervision of a THS veterinarian
- this checkbox MUST be initialed for a student to participate with the surgery (other than observing)
- this responsibility to obtain informed consent maybe delegated to the student

VCA Canada Tri Lake Animal Hospital & Referral Centre

ROTATION CODE:	TRIL, TRIL13		
INSTRUCTOR:	Dr. Serena Caunce		
DURATION:	2 weeks		
TIMING:	\$13-14 15-16 31-32	July 18, 2022 – July 30, 2022 December 5, 2022 – December 17, 2022 April 10, 2023 – April 22, 2023	
STUDENT NUMBERS:	1 student p	per rotation	
DESCRIPTIVE:	 1 student per rotation VCA Canada Tri Lake Animal Hospital & Referral Centre is a growing hybrid practice situated in the heart of the beautiful Okanagan Valley, serving the Interior of British Columbia for over 35 years. The hospital houses a bustling general practice with a healthy case load of exotic patients and an expanding set of specialty services. Currently, there is no exotic specialist at the practice. However, the medical director, Dr. Linda Kaplan, has provided exotic services to the area for the past 30 years. Tri Lake attends to the majority of avian, reptile, and pocket pet owners within a 5-hour radius of the hospital. The hospital is a 16,500 sq ft purpose-built facility with eight exam rooms, spacious treatment floor, well-equipped in-house lab, four ORs, separate Dental suite, Philips Affiniti 70 Ultrasound unit, Aquilion 64-slice CT scanner, and Sound SmartDR+CsI. Students with an interest in exotics, urgent care, and general small animal practice will receive a varied experience at Tri Lake Animal Hospital & Referral Centre! The goals of the rotation are: 1. For final year veterinary students to gain exposure to and increase confidence with small animal general practice 2. To foster the student's interest in exotic pet species including urgent care cases 		
	•	the student should be expressed prior to the rotation; a short case towards the end of the rotation	

Hours:	WEEK 1	Monday – Friday	8:30 – 5:00pm	determined by
iiouis.	WEEK 2	Tuesday – Saturday	1:00 – 10:00pm	caseload

Use of social media is not permitted during rotation hours.

Attire: Extern's own surgical scrubs AND lab coat Housing: Not provided Travel: Students are expected to arrange their own means of transport to the practice

CONTACT: Dr. Serena Caunce Tel: 250-766-3236

Email: serena.caunce@vca.com

* A student may take this rotation only once.

DERMATOLOGY – Vet DERM Clinic, BC

ROTATION CODE:	DERMREF, DERMREF11				
INSTRUCTOR:	Dr. Jangi Bajwa				
DURATION:	2 weeks				
TIMING:	S11 – 12 7 – 8 9 - 10 15 - 16 19 – 20	July 4, 2022 October 11, 2022 October 24, 2022 December 5, 2022 January 16, 2023	 	July 17, 2022 October 23, 2022 November 6, 2022 December 18, 2022 January 29, 2023	
STUDENT NUMBERS:	2 students pe	2 students per rotation.			
DESCRIPTIVE:	This is a clinical dermatology rotation where referral and non-referral small animal dermatology cases are examined by each of the students on the rotation. The goal of the rotation is to provide you with an opportunity to apply your knowledge and develop your skills in the discipline of dermatology while gaining clinical experience with the workup and management of dermatological conditions in dogs and cats. Please review your notes from past lectures in Dermatology before the start of the rotation. Learning objectives				
	 To bec derma To bec examinant an otic should lesions To be <u>comm</u> the dia To be condit includ parasit manife mediation To be derma derma biopsy otoscoo To be manag 	come competent in collect tologic focused history from come competent in performation and a focused derror examination) recognizing be able to provide a more s and their distribution. able to take identified able on differential diagnoses agnosis. able to identify <u>common</u> ions in dogs and cats observing infectious skin diseases tic), otitis externa/media, estations of endocrine dist tologic cases (e.g. impre- tophyte cultures, direct how and the clinical diagnoses opic evaluations.	rom the orming a matologing signif rphologi onormalite and diagen	client. thorough general physical ic examination (including ficant abnormalities. You cal description of the ties and formulate a list of gnostic plan to determine <u>portant</u> dermatological general practice erial, fungal and skin disease, skin lergic and immune- s commonly performed on tology, skin scrapings, ns, bacterial culture, skin pic dermatitis.) as well as	

- 7. To build competency in communicating with clients and within a professional team (colleagues, clinician and animal technologist, and staff), including efficient time management.
- 8. To develop an awareness of the cases which can be effectively managed in general practice and those that would be best served by referral to a specialist.

Orientation: Orientation will be held at 8:00 on the first day of the rotation.

Dress: For the rotation, you should wear professional attire appropriate to interacting with clients.

Rounds: Rounds will be scheduled at the beginning of the rotation and include morning rounds, journal club and end of rotation presentations.

- Morning rounds will generally be an in-depth discussion of specific topics. You should read-up on the topic in advance to make sure you come prepared to join the discussion. Rounds may also be held at the end of the day to discuss the day's cases and plan for the next day. This will depend on the caseload.
- 2. End of rotation rounds: you will be asked to prepare and present on one dermatological topic (typically during the second week of rotation). Please select and discuss your topic with the instructor by the first Wednesday of the rotation.
- Weekly Journal club will be held on Wednesdays and students will be expected to review the selected articles and be able to discuss them at the sessions.

Otoscopy training: Hands on practice on detailed hand held otoscopic evaluation of patients will be organized throughout the rotation. Prepare by reading on ear anatomy, important landmarks and techniques of otoscopic examination. Students are encouraged to perform handheld otoscopy practice on all sedated/anesthetized patients during the rotation. In the second week of rotation, guided hand held & video otoscopy can be pursued on awake patients, where possible.

Appointment schedule: Appointments are typically one hour in length. Appointments will be assigned the day before to allow you to review the case record or any referral information and read up on the case in advance.

General:

1. Appointments are scheduled for 30-60 minutes with one student assigned to each case. Cases assignments will ideally be done

the day before so to provide time to research the case if needed. It is assigned student's responsibility to begin the appointment at the scheduled time, introduce themselves to the client, collect the history, and perform the physical examination. Try to complete this component in the first 5-15 minutes so you will have time to formulate your diagnostic plan and discuss it with the clinician before they must complete their component of the appointment. Avoid discussing your plan with the client as it may change after discussion with the clinician. The clinician and other students (as available) will then meet with the client, examine the patient, and present the plan and estimate to the client. Ideally, the assigned student will enter information into the medical record during this part of the appointment but it is their responsibility to ensure it is completed by the end of the day. It is very important for the service that the appointments run on time so use your time efficiently. If you are observing a consultation when your appointment is scheduled to begin, please excuse yourself, and begin your assigned appointment at the scheduled time.

- 2. In hospital patients: Students are responsible for the treatments and maintaining the medical records on any hospitalized patients or patients spending the day at the clinic for procedures. Each patient should be discharged with written discharge notes. Generally the referring veterinarian will be called and a referral letter should go to the referring veterinarian within 24 hours of discharge (unless additional test results are pending).
- 3. If communicating with clients, ensure each communication is summarized in the communication section of the medical record.
- NOTE: * A student may take this rotation only once.
 - * After hours and weekend duty is not anticipated.

Veterinary Infectious Diseases

ROTATION CODE:	CLM				
INSTRUCTORS:	Dr. J. Rubin				
DURATION:	2 weeks				
TIMING:	Weeks 21-22 January 30, 2023 - February 12, 2023				
STUDENT NUMBERS:	2-12 students per rotation				
DESCRIPTIVE:	Infectious disease is the most exciting and quickly evolving discipline in the medical sciences. From anti-vaxxers to Ebola outbreaks, antimicrobial resistance to whole genome sequencing professionals working in infectious diseases strive to apply evidence-based solutions to contemporary 'wicked-problems' in individuals and populations. Veterinary infectious disease lies at the intersection of microbiology and laboratory medicine, clinical pharmacology, internal medicine, epidemiology and public health and is much more than just the "ologies"!				
	In this rotation we will cover laboratory diagnostic methods and how to interpret results, diagnostic processes including sample selection and submission, anti-infective pharmaceuticals, antimicrobial stewardship, vaccines and disease prevention, infection control, outbreak investigation and imported and foreign animal diseases. This rotation is divided into lecture + discussion (mornings) and laboratory + case studies (afternoons).				
	The objective of this rotation is to review the fundamental concepts and develop a toolset required for the evidence-based diagnosis, treatment and management of infectious diseases in animals.				

Vaccine & Infectious Disease Organization (VIDO)

(Evaluation of Vaccine Efficacy and New Vaccine Technologies)

ROTATION CODE:	VID			
INSTRUCTORS:	Dr. P. Griebel (Co-ordinator)			
DURATION:	2 weeks			
TIMING:	Weeks 17-18 January 3, 2023 – January 15, 2023			
STUDENT NUMBERS:	2 – 5 students; Minimum number of students is 2			
DESCRIPTIVE:	The objective of the rotation is to critically evaluate vaccines as a tool for disease control and to design a science-based vaccination strategy. Each student will select a disease of interest and review pathogenesis to characterize the pathogen(s), route of transmission, and target population for a vaccination program. Based on this information, a vaccination program will be developed and the literature critically reviewed for evidence regarding differences in the efficacy of available vaccines. On the final day of the rotation, each student is expected to give a 15-20 minute oral presentation outlining their proposed vaccination program. A case-based format will be used to discuss the benefits and limitations of the proposed disease control strategy within the context of a specific client-patient relationship.			
	 Course objectives will be achieved through directed reading and lectures covering basic concepts regarding vaccines, vaccine production, immune responses to vaccines, and the evaluation of data from vaccine clinical trials. This review will encourage students to ask critical questions regarding vaccine safety, potency, and efficacy. Specific topics for discussion will include: immune responses to pathogens protective versus non-protective immune responses systemic versus mucosal immunity types of available vaccines (killed, MLV, recombinant vectors/proteins) role of adjuvants and immune stimulants in vaccines safety and efficacy of commercial vaccines. 			

Wellness and Preventative Medicine

ROTATION CODE:	WPM				
INSTRUCTOR:	Dr. Karen S	Dr. Karen Sheehan, Dr. Dayle Borchardt and Dr. Jordan Woodsworth			
DURATION:	2 weeks				
TIMING:	1 - 2 $3 - 4$ $5 - 6$ $7 - 8$ $9 - 10$ $11 - 12$ $13 - 14$ $15 - 16$ $17 - 18$ $19 - 20$ $21 - 22$ $23 - 24$ $25 - 26$ $27 - 28$ $29 - 30$ $31 - 32$	August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 October 24, 2022 November 7, 2022 November 7, 2022 December 5, 2022 January 3, 2023 January 16, 2023 January 30, 2023 February 13, 2023 February 28, 2023 March 13, 2023 March 27, 2023 April 10, 2023		September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 6, 2022 November 20, 2022 December 4, 2022 December 18, 2022 January 15, 2023 January 29, 2023 February 29, 2023 February 24 (6PM), 2023 March 12, 2023 March 26, 2023 April 9, 2023	
STUDENT NUMBERS:	2-4 students	per rotation			
DESCRIPTIVE:	<u>Objectives:</u> To provide students with a solid foundation in wellness and preventive medicine in preparation for their entry into small animal general practice. Daily activities will involve seeing wellness and primary care medical appointments in the VMC, case-based topic rounds and discussions and student presentations. Communication skills, thoroughness in history taking and physical examination, and clinical efficiency will be stressed. Students will focus on their role as service provider to the client in order to learn the importance of high quality service in a successful veterinary practice. Tentative rotation hours will be as follows: Mondays: 8:30am to 5:00pm (second Monday of the rotation off				
	in exchange for first Saturday if Saturday is a vaccination clinic) Tuesdays: 8:30am to 5:00pm Wednesdays: 8:30 am to 5:00 pm Thursdays: 8:30am to 5:00pm Fridays: 8:30am to 5:00pm Saturdays (first Saturday of rotation only): 8:00am to 5:00pm				

There will be no on-call or after hours duties outside of these times.

Familiarity with the VMC vaccination protocols is essential. Students should also know which parasite control products are available through the VMC Pharmacy. Attending this rotation with questions about general practice status quo is encouraged as controversies and debates surrounding conventionally accepted practices in the area of wellness (i.e., vaccines, deworming, nutrition, pet welfare, puppy and kitten wellness, behaviour problems, etc.) will be discussed.

Evaluation will be based upon assessment of clinical and communication skills, participation in rounds, quality of student presentations, attitude (willingness to learn and active participation in all aspects of the rotation), evidence of improvement throughout the course of the rotation and the ability of the student to build rapport with clients.

On completion of the rotation, students should be comfortable conducting wellness consultations, proficient in physical examination and history taking skills, and comfortable fielding questions from clients about routine preventive health care programs and screening tools.

Goals:

- 1. To understand the importance of wellness and preventive medicine as they relate to the development and maintenance of a sustainable client base in general practice
- 2. To improve communication skills to optimize client interactions and history taking
- 3. To develop and improve clinical efficiency while maintaining a high standard of relationship-centered care
- 4. To become aware of the controversies surrounding conventional wellness and preventive veterinary medicine and to learn how to critically evaluate available biologics and pharmaceutical products and their alternatives
- 5. To gain a foundation in the clinical application of small animal nutrition and how to discuss diet-related issues with clients
- 6. To understand the veterinarian's role as an animal welfare advocate
- 7. To understand the veterinarian's role in fostering and supporting the human animal bond
- 8. To understand the concept of 'One Health' and what we can do to support the interface of human and animal health in our communities

Western Veterinary Specialists & Emergency Centre- Small Animal Emergency & Critical Care				
ROTATION CODE:	WEST			
INSTRUCTOR:	Dr. Valerie Madden, DVM, DACVECC, Dr. Laura Osborne, DVM, DACVECC, Dr. Clare Hyatt, DVM, DACVECC, Dr. James Lange DVM, ECC Resident			
DURATION:	2 weeks			
TIMING:	7 – 8 13 – 14 17-18	October 11, 2022 November 21, 2022 January 3, 2023	- - -	October 23, 2022 December 4, 2022 January 15, 2023
STUDENT NUMBERS:	2 student per rotation			
DESCRIPTIVE:	emergency knowledge cardiology of emergen	on is an advanced small an and critical care medicine of medicine, surgery, oph and anesthesia. Our goal cy practice so there will b ough – days, evenings and	but will thalmol is to int e a vari	ll integrate your logy, neurology, roduce you to all aspects ety of shifts that you will
	The emergency service is responsible for seeing cases directly as they present to the clinic. The shifts will range from days and evenings and occur during weekdays and weekends. The types of cases of cases will vary from day to day as you would expect with any emergency room.			
	 Your responsibility will be to: triage cases as they come in (stable vs unstable, prioritize case if multiple cases are present) obtain the history perform your physical examination perform point of care thoracic and abdominal ultrasound create your problem list and associated differential list create diagnostic and treatment recommendation reassess hospitalized patients 			ominal ultrasound l differential list
	cases so yo advar const centra therap oxyg veter	l care service specializes u will have the opportunit need monitoring procedur ant rate infusions al/sampling lines/chest tul peutic plasma exchange en therapy +/- mechanical inary ambulance transport modal analgesia	y to lea es bes/cath	rn about: heters/feeding tubes

- management of a variety of critical illnesses
- CPR

The criticalists will also perform rechecks and consultations from referring veterinarians and pick up transfers from other services within the hospital (including the emergency service). As their student, you will be discussing the intricacies of each case and working your way through management of diseases processes such as (but not limited to) pneumonia, congestive heart failure, sepsis, toxin ingestion, pancreatitis and polytrauma. The hours will be 7:00am-5:00pm. We have 7 days a week critical care service; the student will participate in a 5 day week rotation on the critical care service.

You will have a **technical day** as well. The focus of this day is to work on patient care/technical skills instead. You will be working alongside the technicians during this day. You are welcome to go see cases with the ER veterinarian but we do encourage you to take advantage of this day to focus on a different aspect of veterinary medicine. The hours for that day will be 10:00-22:00.

In addition to the shifts, there will be **2 written projects.** The first project will be client handouts on 2 different diseases of your choice. Students can choose to work together as a group or submit them individually. The second project will be a power point presentation on a critical care topic of your choice, that you will develop and present to the criticalists. This project will allow the student to develop their knowledge on a particular subject, as well as to enhance their presentation and public speaking skillset.

Goal(s) of rotation: To gain better understanding of how to triage, diagnose and manage emergency cases, while working on increasing efficiency and time management. Expose the student to advanced level care in a small animal ICU setting.

Details of the rotation (including caseload, personnel, policies, pre-requisites, insurance requirements, expectations, assignments, extra costs involved, evaluation)

You will be working with multiple veterinarians. Every veterinarian you train with will have an opportunity to grade you and the weight of their mark will depend on the duration you spend with them.

Each veterinarian will approach the teaching differently, just as each student learns in a different way, so the day to day expectation will vary from individual to individual.

Travel and Accommodation:

Special arrangements are not applicable. Students will be expected to arrange their own transportation to Western Veterinary Specialist Emergency Centre. You can park in our parking lot while here.

Hours of work and expectations for on-call:

There will be day shifts, evening shifts, weekday shifts and weekend shifts. A schedule will be provided to the student when they select this rotation.

* A student may take this rotation only once

CONTACT:

Dr. Laura Osborne email laura.osborne@vca.com phone 403.770.1340

Western Veterinary Specialists & Emergency Centre- Small Animal Internal Medicine Rotation

ROTATION CODE:	WEST-IM, WEST-IM3			
INSTRUCTOR:	Dr. Amelie Pare			
DURATION:	2 weeks			
TIMING:	S3 – 4 5 – 6 9 – 10 13 – 14 23 – 24	May 9, 2022 September 26, 2022 October 24, 2022 November 21, 2022 February 13, 2023	- - - -	May 23, 2022 October 10, 2022 November 6, 2022 December 4, 2022 February 24 (6PM), 2023
STUDENT NUMBERS:	1 student per rotation			
DESCRIPTIVE:	This rotation is an advanced small animal rotation focusing on internal medicine			
	 The rotation will be from Tuesday to Friday. The day typically starts around 8 am and finishes around 6 pm, though this can vary on a day to day basis. Some days will be filled with consultations (2-3 new consultations and 2-4 rechecks) and procedures and some days, transfers from the ER service will also occur in the morning. Students are welcomed to join the on-call endoscopy list, but this is not required. Your responsibility for the consultation 2. Obtain a succinct and efficient history from the owner. A maximum of 20 minutes will be given for this. 3. Create your problem list, differential and plan for the patient 4. Present the case to the clinician and together, we will discuss it with the owner 5. Participate in obtaining the diagnostic samples, ensure you follow up on results and adjust your plan along the way 			
	 The internal medicine service specializes in the more chronic or complicated cases so you will have the opportunity to learn about: Endoscopy (gastrointestinal biopsies or foreign body removal, bronchoscopy, cystoscopy) Joint taps, voiding hydroretropulsion, bone marrow biopsies depending on the caseload Interpreting blood work results and determine which changes are significant Management of immune-mediated diseases, diabetes, kidney disease, proteinuria and other chronic illness 			

During this rotation, you will be working alongside very experienced technicians that are always happy to teach you and assist you with examination, blood draw, intubation, catheter placement, etc.

In addition to the shifts, if the caseload is low, we may ask that you do a presentation on a subject of your choice. Examples of cases might also be given to you to work through as well. Rounds can also be done on subjects of your choice. At the beginning of your rotation, we will ask which subject you are interested in and your goals from the rotation.

Goal(s) of rotation: This rotation can be extremely busy and efficiency skills will be developed. Working through your differential list while prioritizing the possibility and adapting your plan will also be important. Some clients will have financial concerns and learning where to focus might be required.

Details of the rotation (including caseload, personnel, policies, pre-requisites, insurance requirements, expectations, assignments, extra costs involved, evaluation)

You will be working with multiple veterinarians. Every veterinarian you train with will have an opportunity to grade you and the weight of their mark will depend on the duration you spend with them.

Each veterinarian will approach the teaching differently, just as each student learns in a different way, so the day to day expectation will vary from individual to individual.

Travel and Accommodation:

Special arrangements are not applicable. Students will be expected to arrange their own transportation to Western Veterinary Specialist Emergency Centre. You can park in our parking lot while here.

Hours of work and expectations for on-call:

There will be day shifts.

* A student may take this rotation only once

CONTACT:

Dr. Amelie Pare email <u>amelie.pare@vca.com</u> phone 403.770.1340

Radiation Oncology

ROTATION CODE:	WESTOnc			
INSTRUCTOR:	Dr. Katherine Sweet			
DURATION:	2 weeks			
TIMING:	3 - 4September 12, 2022 -September 25, 202223 - 24February 13, 2023 -February 24 (6PM), 2023			
STUDENT NUMBERS:	maximum of 2 students per rotation			
DESCRIPTIVE:	Cancer treatment can take various forms in companion animals. The main objective of this course is for the student to gain exposure to the use of external beam radiation therapy for cancer treatment in companion animals. Students will be assigned to cases presented to the radiation oncology service for scheduled appointments, ongoing cases, and internal			
	transfers. Depending on the cases presented, possible skills/techniques that may be performed by the student include fine needle aspirates, biopsies, catheter placement, blood collection, and cystocentesis. Radiation treatment planning software will also be introduced. You will be involved in all steps of a patient's care at Western Vet.			
	 The student will be responsible for hospitalized cases and outpatients during this course. Duties will include intake and gathering history, physical examination, participation in consultation, diagnostic procedures, treatment planning and delivery, and discharge. The rotation will include topic rounds relevant to incoming or ongoing cases. Students will also be responsible for rounding on their cases with Dr. Sweet daily. The evaluation of students will be based on all aspects of their performance in the clinic including patient care, teamwork, client communication, technical skills, and preparedness for rounds. 			

* A student may take this rotation only once.

Western Veterinary Specialists & Emergency Centre- Small Animal Surgery Rotation

ROTATION CODE:	WESTSx				
INSTRUCTOR:	Surgeons Dr. Germaine Hung Dr. Justin Lavellee Dr. Phil Hyndman (Practice limited to surgery)				
DURATION:	2 weeks				
TIMING:	13 - 14November 21, 2022-December 4, 202227 - 28March 13, 2023-March 26, 2023				
STUDENT NUMBERS:	2 students per rotation				
DESCRIPTIVE:	Advanced small animal rotation focusing on the diagnosis and management of surgical conditions in dogs and cats.				
	Objective: To increase the each student's understanding of common surgical conditions, including pathophysiology, diagnostics, perioperative care, anesthetic management, surgical techniques, and postoperative recovery.				
	 <u>Responsibilities on consultation days</u> 1. Review inpatient progress for the surgery service with the attending surgeon each morning prior to the start of consultations. Be prepared to discuss each patients progress and formulate necessary adjustment to their management as required 2. Review medical files and appropriate literature prior to each consultation 3. Obtain a succinct history from the owner. A maximum of 15 minutes will be provided 4. Examine the patient with the attending surgeon. Specific examinations (ie orthopedic and neurological) will be performed as indicated 5. Present each case to the attending surgeon including a diagnostic and or surgical plan for the patient 6. Participate in discussion with the client and diagnostics as indicated. Review the indications, contraindications, considerations, and complications for relevant procedures Responsibilities on surgery days 1. Review inpatient progress for the surgery service with the attending surgeon each morning prior to the start of surgery. Discuss each patients progress and formulate necessary adjustment to their management as required 2. Review surgical approaches, procedures, and relevant literature prior to each procedure 				

- 3. Attend and assist in all surgeries
- 4. Formulate postoperative management plans for each patient with the attending surgeon
- 5. Examine patients following recovery from anesthesia

The **Surgery Service** has a rounded caseload of minimally invasive, orthopedic, and general soft tissue cases. Both arthroscopic and laparoscopic procedures are commonly performed. Emergency case transfers are also encountered.

In addition to day shifts, if the caseload is low, we may ask that you complete a short (10 minute) presentation on a subject of your choice. Examples of cases might also be given to you to work through as well. Rounds may also be performed with surgeons and/or interns on subjects of your choice on quieter days.

Goals of rotation:

- Build history taking, client communication and physical examination skills
- Develop confidence with lameness work-up including full orthopedic examination
- Develop understanding of and increase exposure to commonly utilized diagnostics for surgical patients
- Expand exposure to and understanding of surgical modalities such as laparoscopic, arthroscopic, and vessel sealing devices
- Exposure to general tissue handling, suturing, and common surgical techniques
- Postoperative pain management

Details of the rotation (including caseload, personnel, policies, pre-requisites, insurance requirements, expectations, assignments, extra costs involved, evaluation)

You will be working with multiple veterinarians. Every veterinarian you train with will have an opportunity to grade you and the weight of their mark will depend on the duration you spend with them.

Each veterinarian will approach the teaching differently, just as each student learns in a different way, so the day to day expectation will vary from individual to individual.

Travel and Accommodation:

Special arrangements are not applicable. Students will be expected to arrange their own transportation to Western Veterinary Specialist Emergency Centre. You can park in our parking lot while here.

Hours of work and expectations for on-call:

The rotation will be from Monday to Friday. The day typically starts around 7:30 am and finishes around 5:00 pm, though this can vary on a day-to-day basis depending on caseload. In a given week, time will be roughly divided between consultation and surgical days. A

consultation day typically consists of 3-5 new consultations and 2-4 rechecks. We will attempt to enable continuity for individual cases so that each student can follow a case through consultation, diagnostics, and surgical intervention where possible. Each student will work with all surgeons throughout the rotation.

Students are expected to join the on-call surgery list for Western cases that require surgery after hours.

Attire:

Formal attire is most appropriate for consultation days. Alternatively clean scrubs may be worn. A lab coat is encouraged. Clean scrubs and a lab coat is required on surgical days. Scrubs are not provided.

* A student may take this rotation only once

CONTACT:

Dr. Phil Hyndman Email <u>Philip.Hyndman@vca.com</u>

Wild Rose Cat Clinic – Calgary

CODE:	FEL				
INSTRUCTORS:	Dr. Elizabeth Ruelle, DABVP (Feline Practice)				
DURATION:	2 weeks	2 weeks			
TIMING:	1 – 2 5 – 6 9 – 10 13 – 14 19 – 20 23 – 24 27 – 28 31 – 32	August 29, 2022 September 26, 2022 October 24, 2022 November 21, 2022 January 16, 2023 February 13, 2023 March 13, 2023 April 10, 2023	 	September 11, 2022 October 10, 2022 November 6, 2022 December 4, 2022 January 29, 2023 February 24 (6PM), 2023 March 26, 2023 April 23, 2023	
STUDENT NUMBERS:	1 student per rotation				
DESCRIPTIVE:	Now the most popular house pet in North America, the cat is still considered a medically neglected species with less than half of all cats receiving the veterinary care they need. Through initiatives of the AAFP (Cat Friendly Practice) and now with the work of Dr. Liz O'Brien (Cat Healthy Canada) that is all changing. Welcome to the world of cat medicine! As a feline only practice, students will be immersed in the world of cat medicine. As a general practice with a boarded specialist owner, the focus of this rotation will be on what is most likely to be encountered in small animal clinics but with an approach to medicine worthy of a specialist practice. Our clinic philosophy is on preventive care and treating diseases with the whole patient in mind. Many of our patients are senior and geriatric cats, so managing multiple diseases will be discussed. For more information about Wild Rose Cat Clinic, please check out our websites at www.catmd.ca.				
	The timing of the rotations for October and/or March was chosen because these are our dental awareness months. These months are typically busy with anesthetics and students can learn about feline dental pathology. About the instructor: Dr. Liz Ruelle is a 2005 graduate from the University of Veterinary Medicine in Kosice, Slovakia. After graduation, she returned to her home town of Calgary where she started a career in feline medicine. Owner of Wild Rose Cat Clinic since 2009, Dr. Liz obtained her ABVP boards in feline practice in			hs. These months are	
				, Slovakia. After Calgary where she Wild Rose Cat Clinic	

2012. She is proud to be one of the authors of Cat Health Canada and an advocate for cat health and wellness.

CONTACTS: Dr. Elizabeth Ruelle (info@catmd.ca)

* A student may take this rotation only once.

Wildlife Health and Disease

ROTATION CODE:	WHD			
INSTRUCTOR:	Dr. T. Bollinger			
DURATION:	2 weeks			
TIMING:	Weeks 1-2 August 29, 2022 – September 11, 2022			
STUDENT NUMBERS:	2-3 students			
PREREQUISITES:	Students who have completed VTPA 434 – Wildlife Veterinary Medicine will be given priority for this course. If there are still openings positions will be offered to students without VTPA 434.			
DESCRIPTIVE:	The objectives of this course are to expose fourth year veterinary students to the techniques used in wildlife or conservation medicine and to discuss major topics related to wildlife health. This rotation is scheduled to make use of diagnostic material submitted to the Canadian Wildlife Health Cooperative and to undertake some field work, if the opportunity allows. The rotation is a mixture of wild animal necropsy, directed reading, class-room discussions, and field and laboratory work if available. A list of the topics and components of the course include: important diseases of wildlife; wildlife necropsy techniques; wildlife, capture, trapping, and handling techniques (depending on projects underway during the rotation); sustainable use of wildlife; and roles of veterinarians in wildlife management.			

* A student may take this rotation only once.

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Winnipeg Assiniboine Park Zoo – Zoo Practice

ROTATION CODE:	WAZ			
INSTRUCTOR:	Dr. C. Enright			
DURATION:	2 weeks			
TIMING:	3 – 4 5 – 6 19 – 20 31 – 32	September 12, 2022 September 26, 2022 January 16, 2023 April 10, 2023		September 25, 2022 October 10, 2022 January 29, 2023 April 23, 2023
STUDENT NUMBERS:	2 students per rotation			
DESCRIPTIVE:	<u>Medicine</u> : Students are expected to assist the zoo veterinarians in the delivery of preventative and emergency medicine to the animals of the Assiniboine Park Zoo. Over 1500 individuals of more than 300 species are kept at the zoo. Clinical cases may also be admitted from Wildlife Rehabilitators seeking veterinary care for their charges. A range of medical conditions are seen at the zoo hospital and our patients range in age from neonates to geriatric. Infectious, metabolic, traumatic, and nutritional disease may all be encountered. Externs will be encouraged to develop diagnostic and therapeutic plans for hospital cases under the direction of the veterinarians. As demand requires, routine medical procedures such as anesthesia, physical examinations, vaccinations, blood tests, TB tests, parasitology examinations and treatments may also be performed on clinically healthy members of the zoo population.			
	 <u>Surgery</u>: The Assiniboine Park Zoo maintains a surgical site as well as equipment for field surgery as required. Surgical case load is not heavy at the zoo, but soft tissue and orthopaedic procedures may be encountered. The zoo administers a vasectomy / tubal ligation program for wild raccoons living on site and the student may have opportunities to perform these surgeries. <u>Pathology</u>: The Assiniboine Park Zoo has a policy to necropsy all deceased zoo animals. The majority of necropsies are performed on site, with a proportion being referred to the provincial diagnostic laboratory. Students will have the opportunity to perform gross pathological examination and interpretation. 			
				psies are performed on provincial diagnostic
	wildlife med with anesthe	The use of chemical rest dicine. The student will b etic equipment and drugs and field anesthesias as re	e expec used in	

<u>Evaluation</u>: Students will be graded using the standard WCVM evaluation form. A sound knowledge of domestic animal medicine, surgery and pathology is a good basis for zoo practice and will be expected.

Overview of Experience:

Tour of the Assiniboine Park Zoo and Hospital Introduction to the unique environment of zoo medicine Safe work procedures in a zoo environment (ultrapotent opiods, novel and dangerous species, zoonoses etc) Discussion of population versus individual medicine in a zoo environment Discussion of Zoonoses and vet's responsibility to staff and visitors Discussion of vaccination, parasite control and other health promotion strategies Case management of select hospitalized animals Discussion of quarantine, disinfection and control of infectious disease Clinical Pathology diagnostics including fecal exams, urinalysis, skin scrape, and blood work Discussion of interpretation and limits of diagnostic tests Gross pathological examination and interpretation Discussion (and dependent on timing - implementation) of neonate medicine Physical examination of avian species, reptile species and mammalian species Wildlife emergency medicine Discussion of anesthetic drug selection and procedures Introduction to anesthesia, anesthetic monitoring in zoo species Trap-vasectomize / tubal ligation-return of raccoon population Other surgical experience Radiography Attire: Steel toe boots are required on site and should be disinfected

<u>Attire</u>: Steel toe boots are required on site and should be disinfected prior to arrival at the zoo. Students may be required to spend periods of time out of doors working on an animal and should have clothing appropriate to the weather conditions. Coveralls should be worn while on site and should be provided by the student. Surgical scrubs are to be worn during surgeries and students should provide their own scrubs.

<u>Hours of Work</u>: Monday to Friday 8:00 - 4:30. Additional evening or weekend treatments or other responsibilities may arise dependent on case load and case requirements.

<u>Recommended Reading</u>: The zoo library contains relevant texts and journal articles and students are encouraged to make use of these resources in case management and management for disease discussions.

<u>Housing</u>: Students are expected to provide their own housing in Winnipeg.

<u>Travel</u>: Students are expected to provide their own means to come to Winnipeg.

* A student may take this rotation only once.

CONTACT:

Dr. Chris Enright (cenright@assiniboinepark.ca) or (204) 927-8024

Zoological, Exotic and Wildlife Medicine I

ROTATION CODE:	ZE1				
INSTRUCTOR:	Dr. D. Parker and Dr. I. Desprez				
DURATION:	2 weeks	2 weeks			
TIMING:	1 - 2 $3 - 4$ $5 - 6$ $7 - 8$ $9 - 10$ $11 - 12$ $13 - 14$ $17 - 18$ $19 - 20$ $21 - 22$ $23 - 24$ $25 - 26$ $27 - 28$ $29 - 30$ $31 - 32$	August 29, 2022 September 12, 2022 September 26, 2022 October 11, 2022 October 24, 2022 November 7, 2022 November 7, 2022 January 3, 2023 January 16, 2023 January 16, 2023 February 13, 2023 February 28, 2023 March 13, 2023 March 13, 2023 April 11, 2022		September 11, 2022 September 25, 2022 October 10, 2022 October 23, 2022 November 6, 2022 November 20, 2022 December 4, 2022 January 15, 2023 January 29, 2023 February 24, 2023 March 12, 2023 March 26, 2023 April 9, 2023	
STUDENT NUMBERS:	2 students pe	er rotation			
DESCRIPTIVE:	Students will participate in the management of clinical cases involving pet birds, ferrets, rabbits, rodents and reptiles. This rotation is based heavily on clinical material, and will vary with the caseload. There is usually an opportunity for students to assist with elective surgery, such as rabbit ovariohysterectomy, orchidectomy as well as with non- elective surgeries. Wild bird patients will be also seen and students will have the opportunity to learn correct handling and management of these species. These patients are also important for the student to learn basic avian anatomy, radiograph interpretation, clinical pathology and disease management, as we often do not have large parrots present for diagnostic work-ups. The wild bird caseload is heaviest in the early fall. One morning a week will be spent at the Saskatoon Zoo performing preventative medicine procedures and helping provide veterinary services to the zoo.				

Each student will be responsible for preparing 1-2 10 minute presentations on a ZEW topic of their choice.