Medicine & Surgery Dog & Cat, VETM*4470

Fall/Winter 2017 - 2018

1.0 Credit

Calendar Description

The course will contribute to students' achievement of selected elements of competency in the context of the dog and cat. The primary emphasis is directed towards developing the skills, knowledge and attitudes that will permit the entry-level veterinarian to develop strategies to deal with common and uncommon diagnoses. The phase level objectives can be found on the OVC website under the Information and Schedule for Phase 3 students.

Course Coordinators

Dr. Michelle Oblak – Ext. 54833; Room 2138, moblak@uoguelph.ca
Dr. Anthony Abrams – Ogg Ext. 54044; Room 2113; aogg@uoguelph.ca

Instructors

Dr. Anthony Abrams – Ogg – Liver Disorders, Gastroenterology, Endocrinology
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Dr. Shane Bateman – Triage, Shock, Fluid Therapy Planning
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Dr. Alexa Bersenas - DKA, Addison's, Renal failure, Head Trauma, Respiratory emergencies,
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Dr. Brigitte Brisson – Wound Surgery, Urogenital Surgery
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Dr. Benoit Cuq – Immune disorders, Bleeding disorders
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Dr. Alice Defarges – Vaccines, Urinary Disorders, Respiratory Disorders
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Dr. Sonja Fonfara – Cardiac Disorders
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Dr. Luis Gaitero – Neurological Disorders
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Dr. Tom Gibson – Orthopedic Surgery
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Dr. Fraser Hale – Dentistry
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Dr. Fiona James – Neuromuscular Disorders
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Dr. Noel Moens – Orthopedic Surgery
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Dr. Tony Mutsaers– Medical Oncology
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Dr. Lynne O'Sullivan – Cardiac Disorders
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Dr. Michelle Oblak – Oncology Surgery, Gastrointestinal Surgery, Ear Surgery, Respiratory Surgery, Hernias
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Dr. Andrew Peregrine – Parasitology
Ext 54714; PAHL 3825; aperegri@uoguelph.ca

Dr. Chantale Pinard – Ophthalmology
Ext. 54148; Room 2116; cpinard@uoguelph.ca

Dr. Adronie Verbrugghe – Nutrition for the critically ill patient
Ext 54034; Room 2148; averbrug@uoguelph.ca

Dr. Stephen Waisglass – Dermatology: dermvet@rogers.com

Administrative Information

For questions regarding academic consideration, continuation of study, academic misconduct, safety, confidentiality, and experiential learning involving use of animals, please refer to the Phase information on the OVC website.

Course Description

The student will continue to develop their knowledge of pathophysiology and clinical management of common diseases of dogs and cats. When possible, the class schedule will be arranged into individual body system units, in order to integrate with other Phase III courses.

Course Objectives

After completing the required reading and attending the lectures and tutorials, the student should be able to:

- Understand the pathophysiology of common medical and surgical conditions of cats and dogs.
- Recognize the presenting clinical signs of the common diseases of dogs and cats.
- Establish an appropriate list of differential diagnoses for each problem, based on the presenting history and clinical signs.
- Define the database necessary to correctly diagnose the common diseases of dogs and cats.
- Formulate a diagnostic and initial treatment plan.
- Describe the steps involved in the elected treatment plan.

Evaluation

The final grade will be composed of formative evaluation (3 Term Tests) worth 45% and a Final Examination worth 55%. The breakdown will be as follows;

Midterms (Three exams <u>each</u> worth 15% of the final grade)

- **Midterm 1:** 15% of final grade (covering material from lectures 1 to 33)
- **Midterm 2**: 15% of final grade (covering material from lectures 34 to 63)
- **Midterm 3:** 15% of final grade. (covering material from lectures 64 to 92)

If you are unable to attend a midterm, you must contact Dr. Conlon pconlon@uoguelph.ca (Associate Dean, Students) to request academic consideration. Following each midterm examination, there will be a three-week period in which the examination can be reviewed. There will not be an opportunity to

review the examination outside of this period. To arrange a time to review the examination, please contact the Administrative Assistant to the Faculty and Chair in the Department of Clinical Studies, Linda Wing (lwing@uoguelph.ca).

Final Examination (summative evaluation), worth 55% of the final mark

Resources

See attached Reading List of required and recommended reading
Check the course website frequently for updates.

Required readings (see Reading List) are expected to be completed by the student prior to the respective classes.

Notes and handouts will be provided on the course website only.

The surgical segment of the course will have required readings from Small Animal Surgery, **4th edition**, 2013, Fossum TW ed. (see Reading List)

The internal medicine segment of the course will have required readings from Small Animal Internal Medicine, **5th ed**, Nelson RW, Couto CG (eds) (see Reading List)

Reading List

Check the course website frequently for updates.

VETM 4470 - Medicine & Surgery of the Dog & Cat
2017-2017 Reading List

Lecture Topic	Nelson & Couto 5th ed (Required)	Fossum 4th ed (Required)	Other Reading Material (Required)	Recommended Reading (Optional)
Hemostasis Disorders	pp1245-1263 (Chap 85) 199-216 (Chap 12)			
Immune Disorders Polyarthritis Hemolytic Anemia ITP	 pp 1118-1120 pp 1207-1212 pp 1251-1254			
Oncology	pp 1093-1152 (Chap 77-84)			
Nutrition for the Sick Patient			Instructor notes	
Digestive System Disorders	pp 367-491 (Chap 28-33) pp 598-628 (Chap 40)		Instructor Notes	
Hepatology	pp501-597Chap 35-39		Instructor Notes	
GI Surgery		pp 404-580 (Chapter 20)	Instructor Notes	
Endocrine Disorders Hypo/hyperthyroid Diabetes mellitus and DKA Hypo/Hyperadrenocort.	pp 740-776 pp 777-823 pp 824-862		Instructors notes	
Dermatology			Dermatology website Instructor notes	Small Animal Dermatology, A Color Atlas and Therapeutic Guide' by Medleau and Hnilica

Wound Surgery		pp 134-228	Instructor notes	
Ear Surgery		pp 325-355	Instructor notes	
Urology	pp 568-657 (Chap 41-48)		Instructor Notes	
Hernias		pp 364-373 568-573	Instructor Notes	
Urogenital Surgery		pp 549-674	Instructor notes	
Cardiology			Instructor notes	Journal articles posted on Courselink
Respiratory System Disorders	pp 217-355 (Chap 13-25)		Instructor notes	Journal articles posted on Courselink
Respiratory Surgery		pp 906-991	Instructor notes	
Orthopedic Surgery			Instructor notes	Pain CD: Chronic Pain Mgmt
Neurology			Instructor notes	A practical guide to canine and feline neurology. Dewey CW & da Costa RC. BSAVA Manual of canine and feline neurology. Platt SR, Olby NJ. Veterinary neuroanatomy and clinical neurology. De LaHunta A, Glass EN, & Kent M.
Ophthalmology			Instructor notes	
Dentistry			Instructor Notes	Journal articles posted on Courselink
Emergency/Critical			Instructor notes	Small Animal Critical Care Medicine, 2nd edition. Silverstein & Hopper eds. Chap 1 (pp 1-5); Chap 5 (pp 26-30); Chaps 58-60 (pp 311-326)
Parasitology			Instructor notes	

Schedule

See phase 3 Course Schedule for actual times and dates.

Medicine & Surgery of Dog & Cat (VETM* 4470)		
Lecture Schedule		
#	**Lecture Topic**	**Instructor**
Systemic/Whole Body Disorders		
1	Vaccines	Defarges
2	Vaccines	Defarges
3	Urogenital Surgery	Brisson
4	Urogenital Surgery	Brisson
12	Urogenital Surgery	Brisson
5	Oncology	Oblak/Mutsaers
9	Oncology	Oblak/Mutsaers
10	Oncology	Oblak/Mutsaers
11	Oncology	Oblak/Mutsaers
15	Oncology	Oblak/Mutsaers
13	Immune Disorders	Cuq
14	Immune Disorders	Cuq
16	Bleeding Disorders	Cuq
17	Hepatology	Abrams-Ogg
18	Hepatology	Abrams-Ogg
19	Hepatology	Abrams-Ogg
Dermatology		
6	Structure and Function, The Derm exam, Mycology	Waisglass
7	Bacterial skin disease and Otology	Waisglass
8	Skin parasitology	Waisglass
22	Allergic skin disease	Waisglass
23	Acquired Alopecia, Claw disease	Waisglass
24	Scaling skin disorders	Waisglass
25	“Common” immune medicated skin disease	Waisglass
29	Ear Surgery	Oblak
Digestive System Disorders		
20	Gastroenterology	Abrams-Ogg
21	Gastroenterology	Abrams-Ogg
26	Gastroenterology	Abrams-Ogg
27	Gastroenterology	Abrams-Ogg
28	Gastroenterology	Abrams-Ogg
30	Upper GI Surgery	Oblak
31	Gastric Surgery	Oblak
35	Small Intestinal Surgery	Oblak

36	Large Intestinal Surgery	Oblak
Endocrine Disorders		
32	Diabetes Mellitus	Abrams-Ogg
33	Diabetic Ketoacidosis	Bersenas
37	Hypothyroidism	Abrams-Ogg
38	Hyperthyroidism	Abrams-Ogg
39	Hyperadrenocorticism	Abrams-Ogg
40	Hypoadrenocorticism	Bersenas
Midterm 1 – November 6, 2017 – 1800/1810 (Lecture 1-33)		
34	Nutrition for the Critically Ill Patient	Verbrugghe
42	Hernias	Oblak
Urinary System Disorders		
43	Acute Kidney Injury	Bersenas
44	Urinary Tract Surgery	Brisson
45	Urinary Tract Surgery	Brisson
41	Urology	Defarges
46	Urology	Defarges
47	Urology	Defarges
48	Urology	Defarges
49	Urology	Defarges
50	Urology	Defarges
Emergency Medicine & Critical Care		
55	Triage	Bateman
56	Shock	Bateman
57	Fluid Therapy Planning	Bateman
93	Head Trauma	Bersenas
Cardiovascular Systems Disorders		
51	Cardiology	O'Sullivan/Fonfara
52	Cardiology	O'Sullivan/Fonfara
53	Cardiology	O'Sullivan/Fonfara
54	Cardiology	O'Sullivan/Fonfara
58	Cardiology	O'Sullivan/Fonfara
59	Cardiology	O'Sullivan/Fonfara
60	Cardiology	O'Sullivan/Fonfara
61	Cardiology	O'Sullivan/Fonfara
62	Cardiology	O'Sullivan/Fonfara
63	Cardiology	O'Sullivan/Fonfara
Midterm 2 – January 22, 2018 – 1800/1810 (Lecture 34-63)		
Respiratory System Disorders		
64	Respiratory Medicine	Defarges
65	Respiratory Medicine	Defarges
66	Respiratory Medicine	Defarges

67	Respiratory Surgery	Oblak
68	Respiratory Surgery	Oblak
69	Respiratory Emergencies	Bersenas
Orthopedic Surgery		
70	Management of the osteoarthritic small animal patient	Moens
71	Conditions of the shoulder	Moens
72	Conditions of the Elbow	Moens
73	Hip Dysplasia	Moens
74	Hip Conditions	Moens
75	Cruciate Ligament Disease	Moens
76	Patellar Luxation	Moens
77	Extremity Conditions	Moens
78	Declaw, Tenectomy, Amputation, Arthrodesis	Gibson
79	Misc. Orthopedic Conditions	Gibson
80	Principles of Fracture Management	Gibson
81	Selection of a Fixation Method	Gibson
82	Fracture Complications	Gibson
83	Fracture Treatment – Case based interactive	Gibson
85	Fracture Treatment – Case based interactive	Gibson
Winter Break – Feb 20-24		
Neuromuscular Disorders		
84	Neurology	Gaitero
86	Neurology	Gaitero
87	Neurology	Gaitero
88	Neurology	Gaitero
89	Neurology	Gaitero
90	Neurology	James
91	Neurology	James
92	Neurology	James
Midterm 3 – March 5, 2018 – 1800/1810 (Lecture 64-92)		
94	Parasites	Peregrine
95	Parasites	Peregrine
100	Parasites	Peregrine
101	Parasites	Peregrine
Ophthalmology		
96	Ophthalmology	Pinard
97	Ophthalmology	Pinard
98	Ophthalmology	Pinard
99	Ophthalmology	Pinard
102	Ophthalmology	Pinard
103	Ophthalmology	Pinard
104	Ophthalmology	Pinard
105	Ophthalmology	Pinard
106	Ophthalmology	Pinard

Dentistry		
107	Dentistry	Hale
108	Dentistry	Hale
109	Dentistry	Hale
110	Dentistry	Hale
Wound Management		
111	Wounds	Brisson
112	Wounds	Brisson
113	Wounds	Brisson