6-GNC

Revised 5/22/2015

5/22/2015 FORMAT 1

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).

See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/ for a complete description of the rules governing curriculum & course changes.

TRIAL COURSE OR NEW COURSE PROPOSAL

	rtment Veterinary Medicine ared by Cathy Griseto			Colleg	e/School					CNSM
Prepared by			Phone			474-192				
Email Contact cagriseto@alaska.edu				Faculty Contact			Mike Harris & Arleigl Reynolds, Assoc Dean Ve Med			
1. ACTION DESIRED (CHECK ONE): 2. COURSE IDENTIFICATION:		T	Trial Course				New Course X			
		Dept	D	VM	Course #	619	No	o. of Cre	edits	4
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3. PROPOSED				Veterinary	y Neurobio	logy				
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10. <u>COMPLETE</u> CATALOG DESCRIPTION including dept., number, title, credits, credit distribution and/or stacking (50 words or less if possible):	on, cross-listings
Example of a complete description:	
FISH F487 W, O Fisheries Management 3 Credits Offered Spring Theory and practice of fisheries management, with an emphasis on strategies utilized for the mfreshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F4	; ENGL F211X or
DVM 619 Department of Veterinary Medicine 4 (3+3) Credit Offered Spring Veterinary Neurobiology Learn information on neurologic conditions in domesticated. A problem-oriented approach makes diagnose and treat neurologic problems in domesticated animals. The coverage of disorders by established disease diagnosis, emulates how animals present to the veterinary hospital and simple formulation of a correct diagnosis. Pre-requisites: Successful completion of first Semester Veterinary Courses	problem, not by
	ř., <u>d</u>
11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to classification appropriately; otherwise leave fields blank. H = Humanities S = Social Sciences	apply S or H
Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form.	NO: x
IF YES, check which core requirements it could be used to fulfill:	laureate Core
11.A Is course content related to northern, arctic or circumpolar studies? If yes, a added in the printed Catalog, and flagged in Banner. YES	e" symbol will be
How many times may the course be repeated for credit?	TIMES
If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?	CREDITS
If the course can be repeated with <u>variable</u> credit, what is the maximum number of credit hours that may be earned for this course?	CREDITS
13. GRADING SYSTEM: Specify only one. Note: Changing the grading system for a course later on Major Course Change – Format 2 form. LETTER: X PASS/FAIL: RESTRICTIONS ON ENROLLMENT (if any) 14. PREREQUISITES Acceptance in Professional Veterinary Medical Program or permission of These will be required before the student is allowed to enroll in the course.	
15. SPECIAL RESTRICTIONS, CONDITIONS Professional Veterinary Medical program student o instructor	r permission of
16. PROPOSED COURSE FEES TBD	
Has a memo been submitted through your dean to the Provost for fee approval? Yes/No	Yes

Yes/No	ecial topics or trial	course previously?		3	No	
If yes, give semester, year, course	#, etc.:					
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explain why not. No x Yes	Departmen	ıt will keep cor	nplete library of	required co	urse material	s in AHRB
	office. Add		es are available	through the	UAF library	as per
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\square Name, \square office location, \square office hours, \square telephone, \square email address.
3. Course readings/materials:
lacktriangle Course textbook title, $lacktriangle$ author, $lacktriangle$ edition/publisher.
\square Supplementary readings (indicate whether \square required or \square recommended) and
☐ any supplies required.
4. Course description:
☐ Content of the course and how it fits into the broader curriculum;
☐ Expected proficiencies required to undertake the course, if applicable.
☐ Inclusion of catalog description is <i>strongly</i> recommended, and
☐ Description in syllabus must be consistent with catalog course description.
5. \square Course Goals (general), and (see #6)
6. Student Learning Outcomes (more specific)
7. Instructional methods:
☐ Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.).
8. Course calendar:
A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester.
9. Course policies:
☐ Specify course rules, including your policies on attendance, tardiness, class
participation, make-up exams, and plagiarism/academic integrity.
0. Evaluation:
\square Specify how students will be evaluated, \square what factors will be included, \square their
relative value, and \square how they will be tabulated into grades (on a curve, absolute
scores, etc.) Publicize UAF regulations with regard to the grades of "C" and below as applicable to this course. (Not required in the syllabus, but is a convenient way to publicize this.) Link to PDF summary of grading policy for "C": http://www.uaf.edu/files/uafgov/Info-to-Publicize-C Grading-Policy-UPDATED-May-2013.pdf
11. Support Services:
lacktriangle Describe the student support services such as tutoring (local and/or regional)
appropriate for the course.
12. Disabilities Services: Note that the phone# and location have been updated.
http://www.uaf.edu/disability/ The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials.
State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655) to provide reasonable accommodation to students with disabilities. 5/21/2013

Revised 5/22/15

DVM 619 VETERINARY NEUROBIOLOGY

SYLLABUS – SPRING

Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:

Title:

Veterinary Neurobiology

Number:

619

Credit:

Prerequisites:

Successful completion of first semester of veterinary courses

Location:

TBD

Meeting time:

Three times a week for one hour lectures, once per week for three hour laboratory, exact time TBD. Each week includes lectures and labs which correspond with the lectures grades are based on both lecture/exams and lab/exams.

2. Instructor Contact Information:

Name:

Dr. Michael Harris

Office Location: 123 Murie Life Sciences Bldg.

Office Hours: By appointment

Office Phone: 907-474-7801

Email:

mbharris@alaska.edu

Email is the best way to reach the instructor. You should receive a response to your email within 24 hours when it is received. If you do not receive a reply within this time frame, assume that the email was not received and please resend your message.

3. Course Reading/Materials:

Notes: Available Course Notes, Guide: Laboratory Guide,

List of text book resources:

Textbook of Veterinary Anatomy, 4th ed. Guide to the Dissection to the Dog, 7th ed. Handbook of Veterinary Neurology, 5thed.

Veterinary Neuroanatomy and Clinical Neurology, 3rd ed.

4. Course Description:

Learn information on neurologic conditions in domesticated. A problem-oriented approach makes it easy to diagnose and treat neurologic problems in domesticated animals. The coverage of disorders by problem, not by established disease diagnosis, emulates how animals present to the veterinary hospital and simplifies the formulation of a correct diagnosis.

5. Course Goals:

This course will present an introduction to the organization and function of the nervous system of domestic mammals, in terms of relationships among major components comprising the nervous system, and how behavior is altered by disorders of nervous system components. The course will present the basic components and functions of the spinal cord, brain stem, cerebellum and cerebrum. The course is taught to provide a basic understanding of the nervous system, including the physiology, pharmacology and pathology of the nervous system, allowing for understanding of clinical diagnosis and treatment

6. Student Learning Outcomes:

Upon successful completion of the course, students will be able to identify and pronounce the names of nervous system components, to facilitate their understanding of medical literature and communication with medical colleagues and future clients. They will be able to explain how neural components are structurally and functionally related to one another and how specific neural damage leads to particular neurological disorders. They will understand the rationale for procedures comprising a neurological exam of a veterinary patient and perform a basic neurological exam.

7. Instructional Methods:

Lectures

The lectures will emphasize selected aspects of neurobiology that are applicable to the practice of veterinary medicine. Lectures are intended to provide illustration, clarification, and updating of information. My philosophy of lecturing is that it is a coaching session to help you understand which information is most important and how to use it. But, the lecture is NOT meant to be the transfer of the exact body of knowledge that is useful in the practice of veterinary medicine. There is far more to learn than I can recite in our limited time together.

Textbooks

There are many reference books that you may find helpful as a supplement to the lectures (see reading material list). A wide variety of general, allied health, and health professions neurobiology textbooks are available in the library. Various veterinary medical textbooks have large sections devoted to this subject.

Laboratory exercises

Laboratory exercises will be supported by a prepared laboratory guide, on-line resources and two CDs: "Veterinary Neurobiology Interactive Programs" (Whalen), a CD consisting of interactive programs introducing neurohistology, brain anatomy, cranial nerves, spinal cord, brachial and lumbosacral plexuses, and interactive tests; "Veterinary Neurobiology, Interactive Cases" (Whalen), an interactive CD containing video footage of 20 neurological cases allowing practice at neuroanatomical diagnoses.

8. Course Calendar:

For details, refer to the section "Tentative Lecture Schedule" in the end of this syllabus.

9. Course Policies:

Attendance:

Students are expected to attend all classes. Exams will draw on lecture material and students that do not attend class will likely not to do well in exams.

Classroom Behavior:

Any type of behavior in the classroom that is disruptive, distracting, or disrespectful to the instructor or to your fellow students will not be tolerated and will result in dismissal from the classroom. This includes, but is not limited to, disrespectful comments, and the use of tobacco products. All cell phones or other such devices must silenced while in the classroom. Do not browse the Internet, text message or IM while in the classroom. You can use such devices for note taking or other class related activities.

Plagiarism:

Plagiarism is the overt or covert use of other people's work or ideas without acknowledgement of the source. This includes using ideas or data from a classmate or colleague without permission and acknowledgement, including sentences from journal articles in your writing without citing the author, or copying parts of a website into your essay. Plagiarism and cheating are serious offenses that violate the student code of conduct which may result in an "F" in the course and/or referral to the university disciplinary committee.

10. Evaluation:

Included in this course are:

- There will be approximately 12 homework cases, each handed out on a Monday and due the following Monday. Late assignments will be reduced by 10% per day past due. All on-line cases must be finished before the end of the semester, or your final grade will be withheld.
- Individual Filmed Student Neurological Exam: Performance Assessments will begin in April. You will be required to perform a portion of the neurological exam. During the exam you will be asked to explain what is being tested, and given specific symptoms, be prepared to verbally specify a location for a possible lesion and state a rationale for that location. Afterward you will watch your performance, and write a one page self-review. Information for this assessment will be located on Blackboard under Student Neurological Exam: Performance Assessment. Sign-up sheets will be posted during the month of February. Keep in mind that some time slots will be during elective courses, so please be sure to check your own schedule before signing up for a time. You will be asked to sign up for a 30 minute slot with a partner and provide a pet (canine or feline) for the exam. Be prepared to do the entire exam, but the portion of the neurologic exam that you perform will be due no later than one

week after your neurological exam is filmed. You must get a passing grade on this assessment in order to pass the DVM 619 course.

• 3 in class exams that will consist of multiple choice short answer and essay portions.

Grades for the course will be assigned as follows:

Homework (10 points each)	120
Neurological exam self review	80
Exam 1	100
Exam2	100
Exam 3 (comprehensive)	200
Total	600

Grades will be calculated on 100-

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poir	it scale	
A+	96-100	%
Α	92-95.9	%
Α-	88-91.9	%
B+	84-87.9	%
В	80-83.9	%
B-	76-79.9	%
C+	72-75.9	%
C	68-71.9	%
C-	64-67.9	%
D	60-63.9	%

11. Support Services:

If you require more assistance than can be provided in class, and office hours, you may want to contact Student Support Services (http://www.uaf.edu/sssp/) or the Department of Veterinary Medicine for assistance.

12. Disability Services:

All students, including those with disabilities, are welcome in this course, and we are committed to providing equal access to this course for all students. If you have a disability (including learning disabilities) please inform us during the first week of class so that we can accommodate your specific needs. If you have not already done so, you will also need to contact UAF's Office of Disabilities Services (474- 5655). Everyone should have the opportunity to participate fully in the course and to complete assignments and exams to the best of their ability. If accommodations are needed to enable you to do so, we will gladly work with you to provide them.

Tentative Class Schedule (Lecture & Lab) Each week includes lectures and labs which correspond with the lectures – grades are based on both lecture/exams and lab/exams.

Week Topic (approximate schedule)

Week 1	Introduction to Veterinary Neurobiology; Anatomy of the brian.
	Virtual canine Anatomy, Introduction to gross anatomy of the brain
Week 2	Neurohistology; Synaptic transmission; Cranial nerve examination; Brain anatomy
Week 3	Cranial nerve exam; Cranial nerve case study; Blood supply, ventricular system, CSF & meninges
Week 4	Nervous system signaling; Clinical examination of cranial nerves; case study
Week 5	1 st Exam Spinal nerves and spinal cord anatomy and pathology; Sonatosensory systems
Week 6	Conscious proprioception; Nociception; Pain modulation; Upper & lower motor neurons
Week 7	Clinical pain assessment; Vestibular system; CSF collection; Upper & lower motor neuron reflexes
Week 8	Acupuncture; spinal reflexes; tetany & flaccidity; Case studies
Week 9	Ear anatomy; Auditory system; cerebellum
Week 10	2nd Exam Brain cross sections; brain imaging; Eye
Week 11	Eye; clinical eye examination; Visual and papillary reflexes; case studies
Week 12	Clinical significance of ANS; Seizure; Functional cortical anatomy
Week 13	Behavior; Equine neurological exam
Week 14	Case studies; Review
Week 15	3rd Exam / Comprehensive exam as scheduled by UAF