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

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

	TRI	AL COURS	E OR I	NEW CC	URSE PRO	POSAL			
UBMITTED BY:									
Department	Veterinary Med	icine		Colle	ge/School				CNSM
Prepared by	Cathy Griseto			Phone					474-1928
Email Contact	cagriseto@alaska	a.edu		Facul	ty Contac	O.		-	Arleigh Dean Vet
1. ACTION D	CHECK ONE):	Tria	l Cour	se		New Co	urse	X	
2. COURSE I	DENTIFICATION:	Dept	D	V <b>M</b>	Course #	625	No. Credi	CONTRACT OF THE PARTY OF THE PA	2
Justify u division number of		rofessional Pr	ogram re	equired co	urse – see CS	U syllabus atta	ched		
3. PROPOSED	COURSE TITLE:			Pri	iciples of Dia	agnostic Ima	ging		
4. To be CR	OSS LISTED? YES/NO	No	I	f yes, Dept:		Course	#		
	s-listing requires form for additions				tments and	d deans in	volved.	Add 1	ines at
5. To be STA	ACKED? YES/NO	NO	I	f yes, Dept.		Cou	rse #		
from ea	e two course level ch other? How with at the appropria	11 each	be						
Stacked cours by the Gradua and graduate different cou different (i. undergraduate the committee	se applications are the Academic and Activersions—will help arses. The committee, is there under see being overtaxed as are looking out mattee has qualms	e reviewed dvising Co p emphasiz ees will d graduate a ?; 3) are for the i	by the mmitted the the determined gradua nteres	e. Crea differe ne: 1) duate 1 te stud ts of t	ting two d nt qualiti whether th evel conte ents being he student	ifferent s es of what e two vers nt being o undertaxe s taking t	yllabi—u are sur ions are ffered); d? In t he cours	ndergroposed suffice 2) archis cose. Type	raduate to be tw ciently re ontext, pically,
6. FREQUENC	Y OF OFFERING:	Fall eac			SULF/ORANGIEC				
		Fall, S				r Even-num r As Deman			or Odd-
	& YEAR OF FIRST if approved by 3 Y2014-15)		3	A	Y2015-2016				
	RMAT: hours may not be nto fewer than six								

8. COURSE FORMAT:

NOTE: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school's curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the Core Review Committee.

COURSE FORMAT:
(check all that apply)

OTHER FORMAT
(specify)

Mode of delivery
(specify lecture, field trips, labs, etc)

Lectures and Labs

AUG -5 2014

Governance 10/2/14

9. CONTACT HOURS PER WEEK:  2 LECTURE hours/weeks  Note: # of credits are based on contact hours. 800 minut of lab in a science course=1 credit. 1600 minutes in non minutes of practicum=1 credit. 2400-8000 minutes of inte the syllabus. See http://www.uaf.edu/uafgov/faculty-senat/guidelines-for-computing-/ for more information on numbe  OTHER HOURS (specify	ernship=1 credit. 2400-4800 ernship=1 credit. This must match with e/curriculum/course-degree-procedures-
type)	
10. COMPLETE CATALOG DESCRIPTION including dept., numb distribution, cross-listings and/or stacking (50 v	
Example of a complete description:	
FISH F487 W, O Fisheries Management 3 Credits Offered Spring Theory and practice of fisheries management, with utilized for the management of freshwater and mari- F131X or COMM F141X; ENGL F111X; ENGL F211X or ENG- permission of instructor. Cross-listed with NRM I  DVM 625 Department of Veterinary Medicine 2 Credits Offered Fall Principles of Diagnostic Imaging to identify structures on radiog	ine fisheries. Prerequisites: COMM GL F213X; ENGL F414; FISH F425; or F487. (3+0)
Objectives will be to identify the structures on radiographic images (d and cat) structures, and equine structure, and to name and locate the applicable, ultra-sonographic) images during quizzes. To describe he obtain the standard radiographic views for each body area.	ligital or film images); small animal (dog ese items on radiographic (and where
Pre-requisites: Acceptance into Professional Veterinary Medical	Program
11. COURSE CLASSIFICATIONS: Undergraduate courses onl Council to apply S or H classification appropriate H = Humanities S = Social	
Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form	
IF YES, check which core requirements it could be  O = Oral Intensive,  Format 6  W = Writing Intensi  Format	ive, X = Baccalaureate
11.A Is course content related to northern, arctic or "snowflake" symbol will be added in the printed	Catalog, and flagged in Banner.
YES 10 COUNCIL DEPOSIT OF THE	NO X
12. COURSE REPEATABILITY:  Is this course repeatable for credit?  YES	NO X
Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).	
How many times may the course be repeated for cre	edit? TIMES
If the course can be repeated for credit, what is number of credit hours that may be earned for the	
If the course can be repeated with variable credit maximum number of credit hours that may be earned	
later on constitutes a Major Course Change - Forma	ng the grading system for a course at 2 form.
LETTER: X PASS/FAIL:	

	ON ENROLL	MENT (if any)
14. PREREQU	ISITES	Acceptance into Professional Veterinary Medical Program or permission of Instructor
These w	ill be req	quired before the student is allowed to enroll in the course.
15. SPECIAL CONDITIONS	RESTRICTION	Acceptance into Professional Veterinary Medical Program or permission of Instructor
16. PROPOSE	D COURSE F	TBD TBD
Has a	memo been	submitted through your dean to the Provost for fee approval?  Yes/No
17. PREVIOUS	HISTORY	
Has the previous Yes/No		en offered as special topics or trial course No
If yes, course #		ster, year,
18. ESTIMATE		NY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
***************************************	noi, ii m	, , , , , , , , , , , , , , , , , , , ,
Profession	al Program	approved by BOR, Chancellor and Provost – Impact on Animal Resource Center or renovation in process
Profession facility in  19. LIBRARY  Have you 474-6695) services	year 1 due to COLLECTION Contacted with rega available	approved by BOR, Chancellor and Provost – Impact on Animal Resource Center or renovation in process
Profession facility in  19. LIBRARY  Have you  474-6695)  services  resolution	year 1 due to COLLECTION Contacted with rega available	approved by BOR, Chancellor and Provost - Impact on Animal Resource Center or renovation in process  is the library collection development officer (kljensen@alaska.edu, ard to the adequacy of library/media collections, equipment, and for the proposed course? If so, give date of contact and
Profession facility in  19. LIBRARY Have you 474-6695) services resolution No	year 1 due to COLLECTION CONTACTED with rega available n. If not	approved by BOR, Chancellor and Provost - Impact on Animal Resource Center or renovation in process  IS  the library collection development officer (kljensen@alaska.edu, and to the adequacy of library/media collections, equipment, and for the proposed course? If so, give date of contact and to, explain why not.  Department will keep complete library of required materials in AHRB office
Profession facility in  19. LIBRARY Have you 474-6695) services resolution No  20. IMPACTS What pro	year 1 due to COLLECTION CONTACTED With regal available In If not X Yes ON PROGRAM grams/dep	approved by BOR, Chancellor and Provost - Impact on Animal Resource Center or renovation in process  IS  the library collection development officer (kljensen@alaska.edu, and to the adequacy of library/media collections, equipment, and for the proposed course? If so, give date of contact and to, explain why not.  Department will keep complete library of required materials in AHRB office
Profession facility in  19. LIBRARY Have you 474-6695) services resolution No  20. IMPACTS What profinctude in Impact on A	year 1 due to COLLECTION CONTACTED With regal available In If not X Yes  ON PROGRAM Grams/dep formation o	approved by BOR, Chancellor and Provost – Impact on Animal Resource Center or renovation in process  IS  the library collection development officer (kljensen@alaska.edu, and to the adequacy of library/media collections, equipment, and for the proposed course? If so, give date of contact and and an explain why not.  Department will keep complete library of required materials in AHRB office  IS/DEPTS  Departments will be affected by this proposed action?  Out the Programs/Departments contacted (e.g., email, memo)  Unrec Center facility in year 1 due to renovation in process. ARC contacted and

Please specify **positive and negative** impacts on other courses, programs and departments resulting from the proposed action.

Biology & Wildlife, Chemistry or SNRE students may request admission to class for research or professional development. Vet Med will be providing curriculum in biomedical sciences which was not available previously.

## JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

The course is required for first year veterinary students and the syllabus is provided by CSU CVMBS. The course has been approved by their accreditation requirements and will be offered at UAF as part of the 2+2 program (first two years at UAF and last two years at CSU).

APPROVALS: Add additioned signature lines as needed.
They Ille 7/7/14
Signature, Chair, Veterinary Medicine Program/Department of:
Date 9-22-14
Signature, Chair College/School CNSM Curriculum Council for:
Mul W Jash Date 9/23/19
Signature, Dean, College/Sonool CNSM of:
Offerings above the level of approved programs must be approved in advance by the Provost.
Date
Signature of Provost (if above level of approved programs)
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE
Date
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAAC
Signature, Chair
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAAC
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAACCore ReviewSADAC
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAACCore ReviewSADAC  ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAACCore ReviewSADAC  ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)  Date  Signature, Chair, Program/Department of:
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAACCore ReviewSADAC  ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)  Date Signature, Chair,
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAACCore ReviewSADAC  ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)  Date  Signature, Chair, Program/Department of:  Date  Signature, Chair, College/School

ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at: http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/ The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be denied. SYLLABUS CHECKLIST FOR ALL UAF COURSES During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline): 1. Course information: ☐Title, ☐ number, ☐credits, ☐prerequisites, ☐ location, ☐ meeting time (make sure that contact hours are in line with credits). 2. Instructor (and if applicable, Teaching Assistant) information: □ Name, □ office location, □ office hours, □ telephone, □ email address. 3. Course readings/materials:  $\square$  Course textbook title,  $\square$  author,  $\square$  edition/publisher. □ Supplementary readings (indicate whether □ required or □ 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.  $\square$  Inclusion of catalog description is strongly recommended, and Description in syllabus must be consistent with catalog course description. 5. 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. 10. Evaluation: lacktriangle Specify how students will be evaluated, lacktriangle what factors will be included, lacktriangle 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: 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.

## DVM 625 PRINCIPLES OF DIAGNOSTIC IMAGING

## SYLLABUS - FALL

# Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:

Title:

Principles of Diagnostic Imaging

Number:

**DVM 625** 

Credit:

2

Prerequisites:

Successful application to Professional veterinary medical program

Location:

TBD

Meeting time:

Twice a week

2. Instructor Contact Information:

Name:

Dr. Ors Petnehazy

Office Location:

TBD

Office Hours:

By appointment

Office Phone:

TBD

Email:

opetnehazy@alaska.edu

Name:

Dr. Sarah Love

Office Location:

182 Arctic Health Research Building

Office Hours:

By appointment

Office Phone:

TBD

Email:

sblove@alaska.edu

Email is the best way to reach the instructors. 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:

Textbook Title:

Thrall's Textbook of Veterinary Diagnostic Radiology

Edition:

6<sup>th</sup> Edition

Publisher:

Elsevier

ISBN:

9781455703647

Textbook Title:

Radiation and Xrays in Techniques of Veterinary Radiography

Editors:

Morgan JP 5<sup>th</sup> Edition

Edition: Publisher:

Iowa University Press

DVM 625 Syllabus Page 1 of 6 CD on Interactive Programs on Veterinary Radiology, Kraft, Park et al, Colorado State University. This CD can also be purchased at CSU in the Vet Text and will be used in all four years of your curriculum. It is PC compatible only! No MAC version is available. If you are a MAC user, you can view this program on the lab computers.

## 4. Course Description:

The course will include an introduction to Radiographic anatomy of small and large animals; introduction to X-Ray, MRI and CT. The course will help to place the anatomical knowledge in the future clinical field.

#### 5. Course Goals:

Students should be able to:

- To identify the following structures on radiographic images (digital or film images). Small animal (dog and cat) structures are in the left column. Equine structures are in the right column. You will be expected to name and locate these items on radiographic (and where applicable, ultra-sonographic) images during guizzes.
- 6. To describe how an animal must be positioned to obtain the standard radiographic views for each body area.

## 7. Student Learning Outcomes:

Understand and Identify the Anatomical structures listed at the end of this sylabus

#### 8. Instructional Methods:

The course is designed based on the scientific teaching method. This method includes active learning and group activities as well as formative assessments. The students are expected to read assigned material ahead of class so that class time can be spent on discussion of assigned reading, problem solving as well as other active learning activities. Assessment will be used throughout the course to help students judge their learning progress and help identify areas in need of focused attention.

This course will use Blackboard (classes.uaf.edu) to make additional information available. All information associated with this course will be posted there, including lecture notes, slides, handouts, or study guides etc. Student version of lectures will be posted before each lecture. Students are expected to download, print and preview the material before each lecture. Students can also check your grades and make sure that information related to your record is accurate.

#### 9. Course Calendar:

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

## 10. Course Policies:

Attendance:

Students are expected to attend all classes.

• 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, the use of tobacco products, consumption of food, use of cell phones or wireless devices, or use of any type of communicative device. All cell phones or other such

devices must be turned off while in the classroom. Do not browse the Internet, text message or IM while in the classroom.

## 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.

#### 11. Evaluation:

## Grade Distributions:

Midterm Exam 100 points Final Exam 100 points Total points 200

There will be one midterm exam and one final exam. Exams will consist of multiple choice. Grades will be posted on Blackboard, you should always confirm that your grade is posted correctly.

Only bring the materials needed for your exam on exam dates. Cell phones must be stored out of sight and turned off. If I suspect cheating occurs during an exam, I reserve the right to re-administer the exam to the entire class. If you are found cheating, you will receive a zero for the exam and will be reported to university disciplinary committee.

## No Make-Up Exams:

All exams must be taken at the scheduled time. NO EXCEPTIONS! Exams cannot be taken before or after the scheduled date/time. If you miss an exam, you will receive a zero as your grade.

\*Note: If you have a conflict due to a university-sponsored event, you must notify me prior to the exam with a confirmation letter from University authority.

## Grading Scale:

Grades will be calculated on a 100-point scale.

A/A+ 93 - 100% 90 - 92.9%A-87 - 89.9%B+ В 83 - 86.9%80 - 82.9%B-C+ 77 - 79.9%C 70 - 76.9%D 65 - 69.9%F <65%

## 12. Support Services:

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

## 13. 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 (474-7043). 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 Lecture Schedule**

## Anatomical Structures to Identify:

## Canine/Feline Forelimb:

**Scapula** 

scapular spine
supraglenoid tubercle (lateral view)
acromion
glenoid cavity
supraspinous fossa
infraspinous fossa

Humerus humeral Head greater tubercle lesser tubercle deltoid tuberosity humeral condyle lateral

epicondyle medial epicondyle

olecranon fossa/radial fossa (craniocaudal)

supratrochlear foramen

supracondylar foramen (cats only)

clavicle (cats) or clavicular remnant (dogs)

supraspinous fossa infraspinous fossa

coracoid process

**Equine Forelimb:** 

supraglenoid tubercle

scapular spine

glenoid cavity

Scapula

**Humerus** humeral

head greater tubercle lesser tubercle deltoid tuberosity humeral condyle lateral epicondyle medial

epicondyle

olecranon fossa/radial fossa

## Radius

Head radial tuberosity nutrient foramen

<u>Ulna</u>

olecranon anconeal process styloid process (lateral) trochlear

notch

#### Carpus

radial carpal bone ulnar
carpal bone accessory
carpal bone
carpal bones I, II, III, IV
sesamoid in abductor pollicis longus
(medial aspect)

## Radius and ulna

head radial tuberosity nutrient foramen olecranon tuberosity anconeal process styloid process trochlear notch

#### Carpus

radial carpal bone ulnar carpal bone accessory carpal bone carpal bones I, II, III, IV

> DVM 625 Syllabus Page 4 of 6

## **Metacarpus**

metacarpal bones I-V

## Digits – forelimb and hindlimb

middle phalanges (P2) distal phalanges (P3) unqula crest ungula process

proximal phalanges (P1) proximal sesamoid bones (palmar) dorsal sesamoid bones (dorsal)

#### **Metacarpus**

metacarpals II, III, IV sagittal ridge condyle

## Digits - forelimb and hindlimb

proximal phalanx (P1) middle phalanx (P2) distal phalanx (P3): medial/lateral palmar/plantar process extensor process solar foramina solar margin proximal sesamoids navicular bone (distal sesamoid)

#### **EQUINE HINDLIMB:**

## **CANINE/FELINE HINDLIMB PELVIS**

#### llium

body wing sacroiliac joing Iliac crest

## **Acetabulum**

### **Pubis**

symphysis pelvis (symphysis pubis + symphysis ischia)

#### **Ischium**

ischiatic tuberosity ischiatic arch

#### Obturator foramen

## **Sacrum**

wina median sacral crest sacral promontory

## **Femur**

head neck trochanteric fossa (craniocaudal view only) medial and lateral condyles trochlear ridges fabellae patella intercondyloid fossa (craniocaudal view only) greater trochanter lesser trochanter extensor fossa (of long digital extensor)

**Distal Femur** (identify on stifle views)

medial and lateral condyles medial and lateral trochlear ridges medial and lateral epicondyle intercondyloid fossa (craniocaudal view only)

## Stifle

patella and pattelar ligament infrapatellar fat pad (lateral only) fabella femoral condyles

#### **Tibia**

tibial tuberosity
intercondylar eminence (medial and lateral
intercondylar tubercles)
medial malleolus (craniocaudal view only)

#### **Fibula**

lateral malleolus (craniocaudal view only) head

#### **TARSUS**

<u>Tarsal Joints</u> talocrural (tarsocrural) proximal intertarsal distal intertarsal tarsometatarsal

## **Tarsal Bones**

calcaneus
talus
sustentaculum tali
central tarsal tuber
calcanei
tarsal bones I, II, III, IV

#### Metatarsus

metatarsal bones I-V

## Stifle

patella

## <u>Tibia</u>

tibial tuberosity intercondylar eminence medial malleolus lateral malleolus

#### **Fibula**

head

## **TARSUS**

Tarsal Joints talocrural (tarsocrural) proximal intertarsal distal intertarsal tarsometatarsal

## **Tarsal Bones**

calcaneus
talus
sustentaculum tali
central tarsal tuber
calcanei
tarsal bones I, II, III, IV
tarsal I & II (fused), III, IV
trochlea of talus

## **Metatarsus**

metatarsus Ii, III, IV sagittal ridge articular condyles