

FORMAL 1

Surme chamble was signatures + 1 coff + electronic coff to Facility Sende (Box 7500).

See CHAMBERS. (Box 7500).

CHAMBERS. (Box 7500).

			ÈRIO	I COURSE AL	rances. R now carn	RSE PROPOSA			
					i men com	DE PAUPUSH			
URMITTED BY:									
Derenan	Cathy Griseto			Collec	e/Scrool				CNSM
Preprint by				Prone	Prone Facility Comacs			474	I-1928
ÉMAII COMACE				Facility				urphy	
1. ACRON DESIL	TED (CXECK O	Mo):	trial C	OURSe		Лем С	ourse	X	
2. COURSE DEN	NIFICALION:	De	Pt	DVM	Course #	724	No. of	Creprs	6
2000	/lower division user of credus:	Profession	onal Progr	am required c	ourse – see C	SU syllabus att			
B. PROPOSED CO	OURSE VALE:			Veto	erinary Bio	analytical Pat	hology		
H. To no CHOSS I	Yes/no		О	Ir yes, Dept			ise #	Šis. B	
5. to so stacked	seing requires approval (0? YES/210	of Both Depart	The second secon	IF yes, Dert.		and the same of the	ional Requi	ned signatures.	
	CORRSO LOTALS DITTAL I						****	_L	
offered; 2) are unde	nees will determine: 1) y engraduates being overte dents taking the course. I F OFFERING:	typically, if en	Raduate stur Rer commut all each ye	eents being under ee was qualms, t ar beginning 2	taxed? In this ver both do. M 1016	context, the common terms on the control of the con	nnsees are see URL a	TOOKING OUR BOR DV	
			AT Albert A		sK	RRANIS	umbered ye	ears) — or As Den	RECEIVED
	YEAR OF FIRST OFFEL 2013; otherwise AY20		3-14 pr	A	Y2016-201				APR 1 5 2015
a dig democra Andrews				MODELLE CONTROL OF THE STATE OF					
COURSE FORMA NOTE: COURSE NOUS	May not be compressed curriculum council. Furi	mto rever tha	n exree days	per chedit. Any	course compre	ssed into Fewer tx	an six week	cs musi se Godbog	Dean's Office penofalatural Science & Math
COURSE FORMU	HD.	I	2	3	ess than sur Pe	Y 5	2 X	6 yeeks to Fl	
otxer format	(SPECIFY)			L			L	semesten	The state of the s
	y (specify lecture,	Lectures a	nd Labs						
э. Солгаст хош	is per week		1 100 1 100	ecture ours/yeeks	1 - 1	LRB	T	PRACTICUM	
science lab-1 chedi	ane based on contact not n. 2400-4800 minutes n/uargoy/faculty-senate	of Practicum=	Res of Lectu 1 credit. 24	ne-1 credit. 240	00 minutes of 1	al crent twis m	ust match A	ARY LYP SYLLARIES	m non-
OLXER XOURS (SP		The lab is			and the second s				

	semeste	er) is used."					
	The state of the s						
	Account of the control of the contro						
PLETE CHIMIOS DESCRIPTION	namus sen.,	, 118941, 1814, CHORS, CA	en estera	u, cens-15	mes un/ex	suaciona (50)	MIK
ess ir Possinio):							
<i>ap il <u>campione</u> description:</i> 7 M. O. Pisneries Mariagei							
CREDIES OFFERED SPRING							
RORY AND PRACTICE OF PERSONS : STRINGS. <i>Presognismes: COMM</i> REMISSION OF INSTRINGOR. CROSS-	F131X ex COM	im piviz; engl piliz; ei	MIL FZIIX es	engl F215	ix; enat Fil	(4; FISX F425	i eu
M 724 Department of Credit Offered Fall							
terinary Bioanalytical Pa							
is course will help students	s begin to:						
. Understand principles us	sed to genera	ate interpretable labora	tory results	for hema	tology, biod	chemistry, a	nd
cytopathology. Understand kinetics, med	chanisms ar	nd interpretations of ba	sic hemato	logic cyto	logic and l	hiochemica	
responses.	oriarnorrio, ar	id litterpretations or ba	olo nomato	logio, cyto	nogic, and	Diogramica	ı.
. Understand integrated di							
	integrate labo	oratory diagnostic test	results in e	valuating t	the health o	of veterinary	•
and the state of t	integrate labo	, , , , , , , , , , , , , , , , , , , ,	. counto c				
. Be able to interpret and i patients. e-requisites: Good stan							
patients. e-requisites: Good standarders: Good standarders: Good standarders: Undergrand standarders:	ding in Prof	essional Veterinary I	Program	incil to appl	y S or X clas	ssification app	ROPRIE
patients. e-requisites: Good stand	ding in Prof	essional Veterinary I	Program	incil to appl	y S or X clas	ssification app	ROPRIE
patients. e-requisites: Good standarders: Good standarders: Good standarders: Undergrand standarders:	ding in Prof	essional Veterinary F s only. Consult wax CLR Cu	Program	incil to appl	y S or X clas	ssification app	ROPRIE
patients. e-requisites: Good standard control of the s	ding in Prof	essional Veterinary F	Program	incil to appl			
patients. e-requisites: Good standard control of the control of th	ding in Prof Raduate courses WIFILL A REQUIRE IF YES, UNICE I	essional Veterinary F	Program IRRICULUM COI S - Social	incil to appl	Yes:		
patients. e-requisites: Good standard control of the standard course be used to fix for the baccalaureate core? IF YES, check which core required to the standard core of the standard core requires control of the standard core requires.	ding in Prof Raduate courses ULFILL A REQUIRE IF YES, AMACK I REMEMBS IS COUL	essional Veterinary Form. Decrease to fulfil: N = Waring Intens.	Program RRICULUM COL S = SOCIAL IVE, FORMAD 7	DICIL to appl	Yes: X = Ba	no:	z Re [
patients. e-requisites: Good standard control of the standard course be used to fix for the baccalaureate core? IF YES, check which core required to the standard core of the standard core requires control of the standard core requires.	ding in Prof Raduate courses ULFILL A REQUIRE IF YES, AMACK I REMEMBS IS COUL	essional Veterinary Form. Decrease to fulfil: N = Waring Intens.	Program RRICULUM COL S = SOCIAL IVE, FORMAD 7	DICIL to appl	Yes: X = Ba	200:	z Re [
patients. e-requisites: Good standard constructions: Undergrand constructions: Undergrand construction constr	ding in Prof Raduate courses LIFELL A REQUIRE IF YES, AMACK I REMERKS IN COUL LED 6	essional Veterinary Form. Decrease to fulfil: N = Waring Intens.	Program CRECULUM COL S = Social Ve. Formed 7	ORCIL to appl	Yes: X = Ba	200:	z Re [
patients. e-requisites: Good standard control	ding in Prof Raduate courses Wiffill a require Ir Yes, anack if Rements it coul Lin 6 Pes	essional Veterinary Form. Decrease to fulfil: N = Waring Intens.	Program CRECULUM COL S = Social IVE, FORMAD 7	ORCIL to appl	Yes: X = Ba	200:	z Re [
patients. e-requisites: Good standard control course be used to fix for the baccalaureate core? If yes, execk which core required to reach the baccalaureate core? O - Oral Intensive, Form core in Beither. Reference repeatable for cresults course repeatable way the course repeatable way the course repeatable way the course repeatable for cresults and course	ding in Prof Raduate courses HIFHL A REQUIRE IF YES, HARLE I REMERIES IN COUL HELD, ARCHE OR O FES COURSE CAN BE R	essional Veterinary I only, Consult wax CLR Cu ment form. D be used to fulfill: W = Waring Intens CRECIMPOLER SHERRS? If res [Yes	Program CRECULUM COL S = Social IVE, FORMAD 7	Sciences Sciences X	Yes: X = Ba	200:	z Re [
Patients. 2-requisites: Good standard control	ding in Prof Raduate courses ULFILL A REQUIRE IF YES, URACK IT REMERIES IT COUL BE 6 FES COURSE CAN BE R RE each time).	essional Veterinary F only, Consult wax CLR Cu ment form. D be used to fulfill: W = Waring Intens CRETAPOLER SHERRS? It res Repeated (for example, the	Program CRECULUM COL S = Social IVE, FORMAD 7	Sciences Sciences X	Yes: X = Ba	NO:	z Re [
patients. e-requisites: Good standard constructions: Undergraverse leave fields blank. X = Xumannies Will this course be used to fir for the baccalaureate core? IF Yes, check which core required to the particles cannot related to particular cores cannot related to particular cores cannot related to particular cannot related to par	ding in Prof Raduate courses LITHLE A REQUIRE IF YES, LIBERT IN REMEMBES IN COUL LED 6 FES COURSE can be in ne each time). Repeated F	Tessional Veterinary Form. Conty. Consult with CLR Current FORM. D be used to fulfill: W = Writing Intens [Yes	Program CRRICULUM COL S = SOCIAL NO. FORMAN 7	Incil to applications of the second s	Yes: X = Ba	270:	z Re _

Letter:

			erinary Medical program student o	r permission of mst	ructor
	these witt be	a contract of a contract of the	efore the student is allowed to enroll in		Commence and the second control of the secon
15. SPECIAL RESTRICTIONS, (conditions	20 mg	Professional Veterinary Medica instructor	l program student (or permission of
16. PROPOSED COURSE FEES	7	TBD			
and the same of the same and the same of t	Xas a	memo been	SUBMITTED THROUGH YOUR DEAD TO THE PROP	ost for fee approval? Yes/No	Yes
7. PROYIOUS XISTORY					
Yes/No	ered as special	eopics or el	rial course preyiously?	No	
If yes, give semester, yes	ar, course #, er	c.:		A CONTRACTOR OF THE CONTRACTOR	
Mariana Total Control of the Control			Get, FACILITIES/SPACE, FACULTY, etc.		
ease with second co			R, Chancellor and Provost – Im	pact to budget in	second year wi
9. LIBRARY COLLECTIONS Xaye you contacted the lib LIBRARY/Media collections, explain yny not.	BARY COLLECTION equipment, and	Deyelopme. Services a	nt officer (xliensen@alaska.edu, 474-66 yailable for txe proposed course? If so,	95) why regard to the Give date of contact al	ade <u>o</u> uacy of D resolution. If n
no z Yes		Department	WILL REST COMPLESS LIBITARY OF REGRIESO	CORREG MADERIALS IN SI	CRB office
O. IMPACES ON PROGRAMS/ What Programs/Departs Include information on the Program of the Program	nents will be nograms/Departn esource Cer	ients contacti	y exis proposed action? ed (e.g., email, memo) ity for necropsy and specialized	needs. ARC cont	acted and
L POSTATYE AND NEGRATYE IN	UPACIS	is on oexer	COURSES, PROGRAMS AND DEPAREMENTS RES	Ulting from the propos	ed action.
There should be no i	mnact on of	her dena	rtments.		

Justification for action requested

the purpose of the department and campus-wide curriculum committees is to scrutinize course exange 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 second 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).

Chlap Donn	Date	4/13/15	
Signature, Chair, Program/Department of:	Veterinary Medicin	е	
al		Date	4/16/15
Signature, Chair/Correge/School Curriculum Cou	meil for: Lusm	Date	1 // 110/10
9/11/1			
January put	cnsm	Date	19/16/18
Signature, Dean, College/School of:			
OFFERINGS ABOVE THE LEVEL OF APPROVED PROGRAMS	MESO DO AFFIOTOD IN AUTAM	ce by the Profost.	
		Date	
Signature of Proyost (if above level of approved	PROGRAMS)		
ill signatures must be obtained prior to	submission to the god	екляпсе оггісе	
		Date	
Signature, Cxair		Date	
Faculty Senate Review Committee:CurriculumCore Review	n ReyienGARC _SADAC		
DDRIONAL SIGNAVURES: (As record for cross-list	are and/or specials)		
		Date	
Signature, Cxair, Program/Department of:	T		
	Control of the second		The state of the s
Signature, Chair, College/School Curriculum Col	IMCII FOR	Date	
Signature, Chair, College/ School Curriculum Col	uncil For:	negy of the angle of the head	
		Date	
Signature, Dean, College/School of:			and their publicates the same and
REACK COMPLETE SYLLABUS (as PARE OF THIS API http://www.uaf.edu/uafgov/faculty-senate/ exe Faculty Senate curriculum committees will re- exe items listed below are included. If items are m or exanges to it) may be denied.	/curriculum/course-de view the syllabus to ensure	gree-procedure txat eacx of	s-/uaf-syllabus-requiremen
Syllabus CXECKLIST for all UAF courses During the first neek of class, instructors will dis document will contain the following information (a	eribure a course syllabus. As applicable to exe discipl	Alexougx modifica me):	tions may be made expoudaous ex
L. Course information: There, in number, incredits, in prerequisitements sure that contact hours are in line with cre-		i time	
2. Instruction (and if applicable, beauting Assistantial Name, office location, office hours,		DDRess.	

L. Cordsa description:
Consens of the course and now it firs into the broader curriculum;
Expected proficiencies required to undertake the course, if applicable.
Inclusion of catalog description is serongly recommended, and
Description in syllabus must be consistent with catalog course description.
5. Course Goals (seneral), and (see #6)
6. Supem Learnine Ouncomes (more specific)
7. Insuracional mencors:
Describe the reaching rechniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/yideo 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 on 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 plagianism/academic integrity.
10. Etelnonge:
Specify now students will be evaluated. What factors will be included, their relative value, and thou they will be tabulated into grades (on a curve, absolute scores, etc.) Publicize URF 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. Suprom Services: Describe the student support services such as tutoring (local and/or regional) appropriate for the course.
12. Disabilines 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 WHITHKER BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.
5/21/2013

DVM 724 BIOANALYTICAL PATHOLOGY

SYLLABUS - FALL YEAR 2

Department of Veterinary Medicine, University of Alaska Fairbanks

Course Information:

Title:

Bioanalytical Pathology

Number:

DVM 724

Credit:

Prerequisites:

Successful Completion of First year Professional Veterinary Program

Location:

TBD

Meeting time:

TBD

2. Instructor Contact Information:

Name:

Dr. Molly Murphy

Office Location: 182 Arctic Health Research Building

Office Hours:

By appointment

Office Phone:

474-1990

Email:

mdmurphy@alaska.edu

Email is the best way to reach the instructor. Please note that I will only be checking email Monday through Friday, 8:00 am-5:30pm (unless otherwise noted in class). Messages received outside of these times will be answered within the next business day (unless otherwise noted in class). 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:

Required textbook:

Thrall MA, Weiser MG, Allison A, Campbell T, eds: Veterinary Hematology and Clinical Chemistry. 2nd ed. Wiley-Blackwell, 2012.

Recommended cytology books:

Canine and Feline Cytology: A Color Atlas and Interpretation Guide by RE Raskin and D Meyer, Saunders, 2009.

Diagnostic Cytology and Hematology of the Dog and Cat by RL Cowell, RD Tyler, JH Meinkoth, and DB DeNicola, Mosby, 2007.

Diagnostic Cytology & Hematology of the Horse by RL Cowell, RD Tyler, Potter, Mosby, K McCance, and Fitzgerald. Mosby, 2007.

Other course resources: Blackboard, Handout Material, Selected current literature

Other available text resources:

Atlas of Veterinary Hematology: Blood and Bone Marrow of Domestic Animals by JW Harvey. Saunders, 2001.

Avian and Exotic Animal Hematology and Cytology by TW Campbell, and CK Ellis Wiley-Blackwell, 2007.

A Guide to Hematology in Dogs and Cats. MacWilliams, Feldman, Metzgar, Pollack. Teton New Press, 2001.

<u>Clinical Biochemistry of Domestic Animals,</u> Sixth Edition. Kaneko, Harvey, Bruss, eds. Academic Press, 2008.

Fluid, Electrolyte and Acid-Base Disorders in Small Animal Practice, 4th ed. by DiBartola. Elsevier 2012.

Fundamentals of Veterinary Clinical Pathology, Stockham, Scott. Wiley-Blackwell, 2008

4. Course Description:

DVM 724 is a Professional Veterinary program requirement studying pathology, hematology, biochemistry and cytopathology.

5. Course Goals:

This course will help students begin to:

- 1. Understand principles used to generate interpretable laboratory results for hematology, biochemistry, and cytopathology.
- 2. Understand kinetics, mechanisms, and interpretations of basic hematologic, cytologic, and biochemical responses.
- 3. Understand integrated diagnostic test selection rationale for the complicated medical patient.
- 4. Be able to interpret and integrate laboratory diagnostic test results in evaluating the health of veterinary patients.

6. Student Learning Outcomes:

Students will be fluent in:

- 1. principles used to generate interpretable laboratory results for hematology, biochemistry, and cytopathology;
- 2. kinetics, mechanisms, and interpretations of basic hematologic, cytologic, and biochemical responses;
- 3. integrated diagnostic test selection rationale for the complicated medical patient; and
- 4. interpretation and integration of laboratory diagnostic test results in evaluating the health of veterinary patients.

7. Instructional Methods:

The course will consist of a mixture of lecture sessions and lab activities. These activities may include a hands-on laboratory (e.g. blood smear preparation and analysis, cytological evaluation, etc.), or interpretation of clinical laboratory chemistry values. During some of the sessions, you may be asked to travel to another location.

Attendance Policy: Attendance at all sessions is required. You will be asked to sign an attendance sheet at the beginning of each session. You may only sign in for yourself. Marking any other student as present is an Honor Code violation.

8. Course Calendar:

See tentative lecture schedule at the end of syllabus.

9. Course Policies:

Attendance:

Students are expected to attend all classes. If you must miss a lab due to an excused absence, you will need to attend a scheduled make-up lab during finals week. This will provide an opportunity to practice the skills and complete your task booklet. If you miss another activity (case-based discussion), you will be assigned an appropriate make-up activity in order to receive credit for the missed session.

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.

10. Evaluation:

The final grade will be based on the following scale after all tests, quizzes, and assignments have been tallied:

```
90.50 to 100% = A
89.50 to 90.49% = A-
87.50 to 89.49% = B+
80.50 to 87.49% = B
79.50 to 80.49% = B-
77.50 to 79.49% = C+
69.50 to 70.49% = C
64.50 to 69.49% = D
64.49% and below = F
```

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 readminister 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. . If you miss an exam for medical reasons you need to inform the instructor as soon as possible and provide a statement from a licensed physician.

11. Weekly activities:

Punctuality is essential in order to ensure you have time to complete the scheduled activities. Please see the documents posted on Blackboard for details regarding specific laboratory sessions.

Expected Time Commitment:

On average, you should expect to spend 7 hours per week in class/lab, and an additional 2-3 hours per week on outside work. The time distribution will vary over the course of the semester, depending on the specific activity your group is completing.

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 (http://www.uaf.edu/sssp/) 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- 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 Schedule

DATE:

TOPIC

9/1-9/7

Course overview

Sampling

Lab techniques

Hematology, CBC (Chapter 5) Lab #1 – PCV / TP/ making slides

9/8-9/14

Intro to Anemia (Chapter 6)

Nonregenerative anemia (Chapter 7) Lab #2 Scope / Poly / reticulocytes

9/15-9/21

Regenerative Anemia (Chapter 8)

RBC Polycythemia(Chapter 9)

WBC (Chapter 10)

Lab #3 - RBC morphology

9/22-9/28 **EXAM 1**

Neutrophils (Chapter 11)

Leukocyte responses (Chapter 12)

WBC Review

Lab #4 - WBC identification and numbers

9/28-10/5 Molecular Diagnostics of hematologic malignancies (Chapter 13)

Hemostasis(Chapter 16)

Hemostasis

Lab #5 - WBC responses

10/6-10/12 **EXAM 2 - cumulative**

Blood transfusion & X-match (Chapter 17)
Bone marrow indications (Chapter 14)
Lab #6 – Hemostasis and fibrinogen

10/13-10/19 Intro to Biochemistry/Data Interpretation

Kidney (Chapter 23)

Urinalysis

Lab#7-Renal biochemistry

10/20-10/26 Liver (Chapter 26)

Liver

Muscle (Chapter 30) Lab #8 – Urinalysis

10/27-11/2 **EXAM 3** – cumulative

Endocrine Pancreas & Glucose(Chapter 27)

Exocrine Pancreas (Chapter 28)

Lab#9-Liver/Muscle/Pancreas biochemistry

11/3-11/9 Intestine (Chapter 28)

Plasma proteins (Chapter 29) Serum lipids (Chapter 31) Endocrine Thyroid / adrenal

Lab#10-Protein and lipid biochemistry lab

11/10-11/16 **EXAM 4** – cumulative

Endocrine thyroid / adrenal (Chapter 32)

Electrolytes (Chapter 24)

Lab#11-Endocrine biochemistry lab

11/17-11/23 Electrolytes(Chapter 24)

Acid Base (Chapter 25) Ca/Ph/Mg (Chapter 33)

Lab#12-Acid Base/elemental biochemistry lab

11/25-12/2 **EXAM 5** – cumulative

Instrumentation QA/QC

Cylology collection and artifacts

Fluid Cytology 12/5-12/9

Lymph node cytology (Chapter 15) LAB #13 – Fluid Cylology Solid tissue cytology

12/12-12/16 Dx assess of immune system (Chapter 15)

Lab #14 - LN Cytology

Case Studies

FINAL EXAM - cumulative