

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

SUBMITTED BY:

Department	Veterinary Medicine	College/School	CNSM
Prepared by	Cathy Griseto	Phone	474-1928
Email Contact	cagriseto@alaska.edu	Faculty Contact	Arleigh Reynolds, Assoc Dean Vet Med

1. ACTION DESIRED
(CHECK ONE): Trial Course ☐ New Course ☒

2. COURSE IDENTIFICATION: Dept **DVM** Course # **603** No. of Credits **1**

Justify upper/lower division status & number of credits:

Professional Program required course – see CSU syllabus attached and preliminary UAF syllabus also attached

3. PROPOSED COURSE TITLE: **Veterinary Science Research & Methods**

4. To be CROSS LISTED? YES/NO **No** If yes, Dept: Course #

NOTE: Cross-listing requires approval of both departments and deans involved. Add lines at end of form for additional required signatures.

5. To be STACKED? YES/NO **No** If yes, Dept. Course #

How will the two course levels differ from each other? How will each be taught at the appropriate level?: **N/A**

Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabi—undergraduate and graduate versions—will help emphasize the different qualities of what are supposed to be two different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e. is there undergraduate and graduate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students being undertaxed? In this context, the committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, they both do. More info online – see URL at top of this page.

6. FREQUENCY OF OFFERING: **Every Fall Semester**
Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) – or As Demand Warrants

7. SEMESTER & YEAR OF FIRST OFFERING (AY2013-14 if approved by 3/1/2013; otherwise AY2014-15) **AY2015-2016**

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) ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☒ 6 weeks to full semester

OTHER FORMAT (specify)

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

Lecture, guest speakers and Video Conference speakers

RECEIVED

AUG -5 2014

Dean's Office
College of Natural Science & Mathematics

Governance
9/25/14 TUP

9. CONTACT HOURS PER WEEK:

1

LECTURE
hours/weeks

0

LAB
hours /week

0

PRACTICUM
hours /week

Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-guidelines-for-computing/> for more information on number of credits.

OTHER HOURS (specify type)

10. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):

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 management of freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0)

DVM 603 Department of Veterinary Medicine
1 Credit Offered Fall

Veterinary Science Research & Methods

This course will illustrate the role of research in furthering the practice of veterinary medicine by presenting a series of lectures from clinical and basic science investigators, faculty and staff who will describe important elements of the research process.

Pre-requisites: Acceptance into Professional Veterinary Program

11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CIA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank.

H = Humanities

S = Social Sciences

Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form.

YES:

NO:

x

IF YES, check which core requirements it could be used to fulfill:

O = Oral Intensive,
Format 6

W = Writing Intensive,
Format 7

X = Baccalaureate
Core

11.A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner.

YES

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 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 variable 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 constitutes a Major Course Change - Format 2 form.

LETTER:

PASS/FAIL:

x

RESTRICTIONS ON ENROLLMENT (if any)

14. **PREREQUISITES**

Acceptance into Professional Veterinary Medical Program or permission of Instructor

These will be required before the student is allowed to enroll in the course.

15. **SPECIAL RESTRICTIONS, CONDITIONS**

Must be in Professional Veterinary Medicine Program or permission of Instructor

16. **PROPOSED COURSE FEES**

TBD

Has a memo been submitted through your dean to the Provost for fee approval?

Yes

Yes/No

17. **PREVIOUS HISTORY**

Has the course been offered as special topics or trial course previously?

Yes/No

No

If yes, give semester, year, course #, etc.:

18. **ESTIMATED IMPACT**

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

Professional Program approved by BOR, Chancellor and Provost – Impact on Animal Resource Center facility in year 1 due to renovation in process

19. **LIBRARY COLLECTIONS**

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No

x

Yes

Department will keep complete library of required materials in AHRB Office

20. **IMPACTS ON PROGRAMS/DEPTS**

What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)

Impact on Animal Resource Center facility in year 1 due to renovation in process. ARC contacted and approved (jeblake@alaska.edu)

21. **POSITIVE AND NEGATIVE IMPACTS**

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


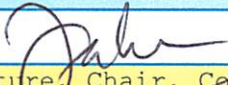
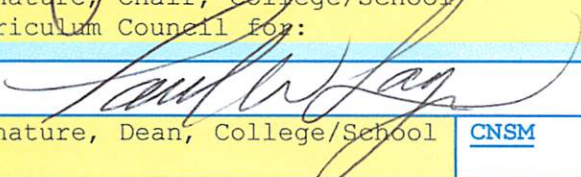
Biology & Wildlife, Chemistry or SNRE students may request admission to class for research or professional development. Vet Med will be providing curriculum in biomedical sciences which was not available previously.

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. The syllabus was 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 additional signature lines as needed.

	Date	7/7/14
Signature, Chair, Program/Department of:	Associate Dean, Department of Veterinary Medicine	
	Date	9/22/14
Signature, Chair, College/School Curriculum Council for:	CNSM	
	Date	9/23/14
Signature, Dean, College/School of:	CNSM	

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 Review ___ GAAC		
___ Core Review ___ SADAC		

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

	Date	
Signature, Chair, Program/Department of:		
	Date	
Signature, Chair, College/School Curriculum Council for:		
	Date	
Signature, Dean, College/School of:		

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:

☐ Course textbook title, ☐ author, ☐ 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.

☐ 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:

☐ Specify how students will be evaluated, ☐ what factors will be included, ☐ their relative value, and ☐ 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

DVM 603 VETERINARY SCIENCE: RESEARCH AND METHODS SYLLABUS – FALL

Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:

Title: Veterinary Science: Research & Methods
Number: DVM 603
Credit: 1
Prerequisites: Successful Application to Professional Veterinary Program
Location: TBD
Meeting time: 1-2 hours per week

2. Instructor Contact Information:

Name: Dr. Arleigh Reynolds
Office Location: 182 Arctic Health Research Building
Office Hours: By appointment
Office Phone: 474-1928
Email: aireynolds@alaska.edu

Telephone is the best way to reach the instructor. Please leave a message. You should receive a response to your call within 24 hours.

3. Course Reading/Materials:

None required. Recommended readings, including journal articles, will be distributed prior to class sessions via on-line resources or during class periods.

4. Course Description:

"Research in Veterinary Medicine" will illustrate the role of research in furthering the practice of veterinary medicine by presenting a series of lectures from clinical and basic science investigators, faculty and staff who will describe important elements of the research process.

5. Course Goals:

Overall Course Objectives:

- Orient DVM students to elements of the research process, particularly where veterinarians may be involved;
- Describe topical research investigations relevant to veterinary medicine;
- Outline the structure of clinical and basic science scientific publications pertinent to veterinary medicine, and provide a framework for critical analysis of published research;
- Illustrate research career opportunities for veterinarians and externship/summer

employment opportunities in research for veterinary students, and provide network opportunities for students with research faculty.

6. Student Learning Outcomes:

The AVMA Council on Education has established clinical competency subject matter areas used to evaluate veterinary medical college curriculum during accreditation. One of the nine areas delineated is “strong appreciation for the role of research in furthering the practice of veterinary medicine.” While some elements of research are alluded to in the UAF/CSU PVM curriculum, no course specifically highlights the crucial role that veterinarians play in furthering biomedical and veterinary research, or the impact of research on furthering the progress of veterinary medicine.

The shortage of veterinarians entering fields such as academic veterinary medicine, public health, laboratory animal medicine, pathology, and/or the need for veterinarians with research training has been well documented in many recent reports and studies. Therefore, the basis for this course is: 1. To illustrate the need for and contributions of veterinarians trained in research careers, and the relevance of research to many aspects of the practice of veterinary medicine; 2. The observation early curricular exposure to these may enhance recruitment of veterinary students to alternative careers; and, 3. The AVMA Council of Education clinical competency requirement for research fluency.

7. Instructional Methods:

This course includes lectures constructed to challenge students to consider the depth and breadth offered by a DVM degree in the context of research applications. Lecturers include CSU, UAF and visiting faculty members involved in the research process, and students performing basic and clinical research as part of their training, as well as staff in IACUC and IRB protocols and research integrity. Faculty will be selected on the basis of their ability to communicate research topics to novices, and for their enthusiastic, dynamic presentation styles.

Expected Time Commitment: Students should expect to spend 1-2 hours per week in class, 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 being completed.

8. Course Calendar:

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

9. 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.

10. 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%
A-	90 – 92.9%
B+	87 – 89.9%
B	83 – 86.9%
B-	80 – 82.9%
C+	77 – 79.9%
C	70 – 76.9%
D	65 – 69.9%
F	<65%

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 (474-7043). 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

Week	TOPIC	LECTURER	COMMENTS
1	Introduction & Course Overview; Summer Opportunity Forecast		Course Coordinator
2	Critical Evaluation of Scientific Manuscripts		
3	CSU DVM/PhD Program; Opening doors to collaboration		
4	Research and Training Opportunities; Intern-Externships and		
5	The amazing world of veterinary diagnostics -- domestic and international research		
6	Student presentations and Clinician scientist		
7	One Health and Veterinary Medicine		
8	Addressing Orthopaedic Questions in animals and Human Research		
9	Veterinary Medicine and Public Policy: Supporting Research by Engaging with Congress		
10	Animal Welfare and Research IACUC, IRB & Integrity		
11	Research Careers		
12	Alaska Public Health Veterinarian opportunities		
13	The Value of Research		
14	Thanksgiving		
15	Summer Research Opportunities		
16	Summer Research Opportunities at CSU		
17	Final Exam Due 5PM		