# TRIAL COURSE OR NEW COURSE PROPOSAL

**SUBMITTED BY:**

<table>
<thead>
<tr>
<th>Department</th>
<th>Veterinary Medicine</th>
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</thead>
<tbody>
<tr>
<td>Prepared by</td>
<td>Cathy Griseto</td>
</tr>
<tr>
<td>Email Contact</td>
<td><a href="mailto:cagriseto@alaska.edu">cagriseto@alaska.edu</a></td>
</tr>
<tr>
<td>College/School</td>
<td>CNSM</td>
</tr>
<tr>
<td>Phone</td>
<td>474-1928</td>
</tr>
<tr>
<td>Faculty Contact</td>
<td>Michael Harris &amp; Arleigh Reynolds Assoc Dean Vet</td>
</tr>
</tbody>
</table>

1. **ACTION DESIRED**
   (CHECK ONE):
   - [ ] Trial Course
   - [x] New Course

2. **COURSE IDENTIFICATION:**
   - Dept: DVM
   - Course #: 618
   - No. of Credits: 7
   - Justify upper/lower division status & number of credits:
     Professional Program required course – see CSU syllabus attached

3. **PROPOSED COURSE TITLE:**
   Veterinary Physiology and Histology

4. **To be CROSS LISTED?**
   - [ ] NO
   - [ ] YES
   - 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?**
   - [ ] NO
   - [ ] YES
   - If yes, Dept:
   - Course #:
   - How will the two course levels differ from each other? How will each be taught at the appropriate level?
   - 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:**
   - Fall each year
   - 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 Core Review Committee. 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
     - [x] 6 weeks to full semester
   - OTHER FORMAT (specify)
   - Mode of delivery (specify lecture, field trips, labs, etc)
     - Lectures and Labs

9. **CONTACT HOURS PER WEEK:**
   - LECTURE: 6 hours/weeks
   - LAB: 3 hours/week
   - PRACTICUM: 0 hours/week
   - Note: # of credits are based on contact hours. 800 minutes of lecture = 1 credit. 240 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)

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Submitted 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.

Revised 4/9/2015

15 - GNC
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 F216X or COMM F411X; ENGL F111X; ENGL F211X or ENGL F215X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0)

<table>
<thead>
<tr>
<th>DVM 616</th>
<th>Department of Veterinary Medicine</th>
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<tbody>
<tr>
<td>7 Credits</td>
<td>Offered Fall</td>
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<tr>
<td>Veterinary Physiology and Histology</td>
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<tr>
<td>The course will discuss the histology and physiology of domestic animal organ systems, tissues, cartilage, bone, muscle, arthrology, nervous system, hematopoiesis, lymphatic, cardiovascular, respiratory and digestive systems; the renal system and physiology. The course will help to place the knowledge in histology and physiology in a clinical context.</td>
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**Prerequisites:** Acceptance into Professional Veterinary Program

11. **COURSE CLASSIFICATIONS:** Undergraduate courses only. Consult with CLA 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? **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 s form.

   LETTER: **X**
   PASS/FAIL: 

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**

   Acceptance into Professional Veterinary Medical 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/No** Yes
17. PREVIOUS HISTORY
Has the course been offered as special topics or trial course previously? 
Yes/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 (kjensen@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. UAF library will provide additional resources with current holdings (according to current catalogue).

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 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).

AS PER ATTACHED

APPROVALS: Add additional signature lines as needed.

Signature, Chair, Program/Department of: Veterinary Medicine 

Signature, Chair, College/School Curriculum Council for: CNSM 

Signature, Dean, College/School of: CNSM 

Offerings above the level of approved programs must be approved in advance by the Provost.

Signature of Provost (if above level of approved programs)
**APPROVALS:** Add additional signature lines as needed.

<table>
<thead>
<tr>
<th>Signature, Chair, Program/Department of:</th>
<th>Veterinary Medicine</th>
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**ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE**

<table>
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Faculty Senate Review Committee:  
- Curriculum Review  
- GAAC  
- Core Review  
- SADAC

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

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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)

   Instructional methods:
   - Describe the teaching techniques (e.g. 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 BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.

5/21/2013
DVM 618
Veterinary Physiology and Histology
SYLLABUS – FALL

Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:
   Title: Veterinary Physiology and Histology
   Number: DVM 618
   Credit: 7
   Prerequisites: Successful Application to Professional Veterinary Program
   Location: TBD
   Meeting time: Three Lectures per week (2 hours each) and one 3 hour lab per week. Each week includes lectures and labs which correspond with the lectures.

2. Contact Information:
   Name: Dr. Michael Harris, Course Coordinator
   Office Location: 123 Margaret Murie Life Sciences Building
   Office Hours: By appointment
   Office Phone: TBD
   Email: mbharris@alaska.edu

   Instructor: Lorrie Rea
   l dre a@alaska.edu

   Instructor: Christine Thomson (email TBD)

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:
   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:
The course will discuss the histology and physiology of domestic animal organ systems, tissues, cartilage, bone, muscle, arthology, nervous system, hematopoiesis, lymphatic, cardiovascular, respiratory and digestive systems; the renal system and physiology. The course will help to place the knowledge in histology and physiology in a clinical context.
5. Course Goals:
Through a team of instructors this course will present the principles veterinary histology and physiology of organ systems in domestic animals that will help students build an understanding of the scientific principles underlying veterinary medicine. Specifically this course will link histological and physiological features of domestic animals to possible pathologies and treatments likely to be encountered in veterinary practice. This material will be presented in a problem-based learning approach to encourage critical thinking to prepare students for future clinical reasoning and veterinary practice. This course will help students understand how to address information gaps through effective self-directed use of sources of information.

6. Student Learning Outcomes:
At the end of this course the students will be able to describe the histology of major organ systems in domestic animals and how this histological features of tissues relate to function and disease. Students will be able to apply analytical thought to this body of knowledge in microscopic form and function. Students will learn to work effectively with others and to express ideas clearly both in writing and oral communication, including using media as appropriate. The successful student will also apply scientific and quantitative reasoning to define, analyze and solve clinical problems and improve information literacy through access, evaluation and use of relevant reference sources.

7. 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 centered around health and disease in domestic animals. 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.

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. 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:

DVM 618 Syllabus  
Page 2 of 6
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:
Weekly laboratory quizzes will be administered on-line via Blackboard. There will also be 3 glass slide quizzes where students need to identify and describe features of tissues previously described in the lab sections. The laboratory final examination will require students to examine specimens on glass slides.

Written examinations on material discussed during lecture may include multiple-choice, short-answer, and/or essay questions and cover lecture material. Lecture exams DO NOT have visual histology images on them, but content from the lecture or lab could be on the lecture or lab exams.

- 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.

- Grading Scale: Each week includes lectures and labs which correspond with the lectures – grades are based on both lecture/exams and lab/exams.

- Grade Distributions:
  Midterm Exams 100 points
  Lab quizzes 50 Points
  Glass Slide Quizzes 50 Points
  Final Exam 100 points
  **Total** 300 points

- Grades will be calculated on a percentage scale.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A+</td>
<td>96-100</td>
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<tr>
<td>A</td>
<td>92-95.9</td>
</tr>
<tr>
<td>A-</td>
<td>88-91.9</td>
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<tr>
<td>B+</td>
<td>84-87.9</td>
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<tr>
<td>B</td>
<td>80-83.9</td>
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<tr>
<td>B-</td>
<td>76-79.9</td>
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<tr>
<td>C+</td>
<td>72-75.9</td>
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<tr>
<td>C</td>
<td>68-71.9</td>
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DVM 618 Syllabus
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C-  64-67.9  %
D   60-63.9  %
F   <60      %

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

Week 1 9/3-9/4/15
Histology and microscopy
Systems, organs and tissue concepts

Week 2 9/8-9/11/15
Histology of Lining epithelium
Histology of Glandular epithelium
Histology of Integumentary system
Histology of the hoof and claw
Overview of connective tissue
Histology of Cartilage
Histology of bone
Histology of bone, cont.

Week 3 9/14-9/18/15
Physiology of bone
Bone development and arthrology
Physiology of Muscle tissue
Physiology of Nervous tissue
Physiology of Membrane potentials and excitable cells
Cell biology of muscle

Week 4 9/21-9/25/15
Cell biology of neurons
Function of the Autonomic nervous system
Physiology of Autonomic nervous system Receptors
Physiology of Hematopoietic system

Week 5 9/28-10/2/15
Physiology of Hematopoietic system
Physiology of Lymphatic system
**EXAM 1:**
Physiology of Receptors and cell signaling

Week 6 10/5-10/9/15
Physiology of Endocrine systems
Glass Slide Quiz 1 (Review labs 1-5)

Week 7 10/12-10/16/15
Physiology of Endocrine systems
Physiology of Cardiovascular system

Week 8 10/19-10/23/15
Physiology of Cardiovascular system

Week 9 10/26-10/30/15
Physiology of the Respiratory system
Week 10 11/2-11/6/15
Physiology of Respiratory system
EXAM 2:

Week 11 11/9-11/13/15
Physiology of the Digestive system
Glass Slide Quiz 2 (Review labs 6-10)

Week 12 11/16-11/20/15
Physiology of the Digestive system

Week 13 11/23-11/25/15 (No Lab (Thanksgiving))
Fluids and electrolytes
Renal physiology

Week 14 11/30-12/4/15 Renal System
Renal physiology

Week 15 12/7-12/11
Acid-base physiology
Comparative osmoregulation and excretion
Glass Slide Quiz 2 (Review labs 11-14)

FINAL EXAM as scheduled by University.