

FORMAT 1

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

See <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures/> for a complete description of the rules governing curriculum & course changes.**TRIAL COURSE OR NEW COURSE PROPOSAL****SUBMITTED BY:**

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

1. ACTION DESIRED

(CHECK ONE):

Trial Course

New Course

X

2. COURSE IDENTIFICATION:

Dept

DVM

Course #

639

No. of Credits

2

Justify upper/lower division status & number of credits:

Professional Program required course – see syllabus attached**3. PROPOSED COURSE TITLE:****Veterinary Virology****4. To be CROSS LISTED?**

YES/NO

~~XXX~~**YES**

If yes, Dept:

BIOL**MSL**

Course #

6XX**6XX**

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?:

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:**Spring 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 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)	<input type="checkbox"/>	1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>	4	<input type="checkbox"/>	5	<input checked="" type="checkbox"/>	6 weeks to full semester
OTHER FORMAT (specify)												
Mode of delivery (specify lecture, field trips, labs, etc)	Lecture											

9. CONTACT HOURS PER WEEK:**2**LECTURE
hours/weeksLAB
hours /weekPRACTICUM
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 639 Veterinary Virology

2 Credit Offered Spring

This course will explore current concepts in the field of veterinary virology, with an emphasis on the viral structure, viral genetic material, and viral replication strategies of various animal viruses. In addition, mechanisms of viral pathogenesis, viral diagnostics, prevention and treatment of viral infection will be presented.

Pre-requisites: Successful completion of first Semester Veterinary Courses.

BIOL 6XX Veterinary Virology

2 Credit Offered Spring

This course will explore current concepts in the field of veterinary virology, with an emphasis on the viral structure, viral genetic material, and viral replication strategies of various animal viruses. In addition, mechanisms of viral pathogenesis, viral diagnostics, prevention and treatment of viral infection will be presented.

Pre-requisites: Permission of instructor.

MSL 6XX Veterinary Virology

2 Credit Offered Spring

This course will explore current concepts in the field of veterinary virology, with an emphasis on the viral structure, viral genetic material, and viral replication strategies of various animal viruses. In addition, mechanisms of viral pathogenesis, viral diagnostics, prevention and treatment of viral infection will be presented.

Pre-requisites: Permission of instructor.

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? **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:

X

PASS/FAIL:

RESTRICTIONS ON ENROLLMENT (if any)**14. PREREQUISITES****Acceptance in 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****Professional Veterinary Medical program student 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**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 in year one depending upon renovation completion.**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 course 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?

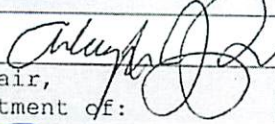
Include information on the Programs/Departments contacted (e.g., email, memo)

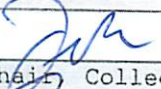
Impact on Animal Resource Center facility in year one due to renovation completion. ARC contacted and approved (jeblake@alaska.edu)**21. POSITIVE AND NEGATIVE IMPACTS**Please specify **positive and negative** impacts on other courses, programs and departments resulting from the proposed action.**Biology & Wildlife, Chemistry or SNRE students may request admission to course for research or professional development. Vet Med will be providing curriculum in biomedical sciences which was not available previously.****JUSTIFICATION FOR ACTION REQUESTED**

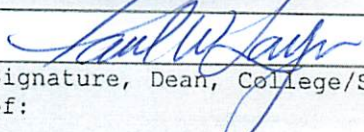
The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory.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

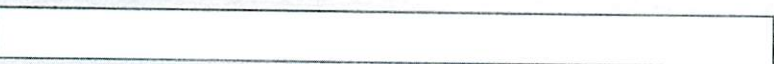

APPROVALS: Add additional signature lines as needed.

 Date 7/7/14
Signature, Chair,
Program/Department of: Veterinary Medicine

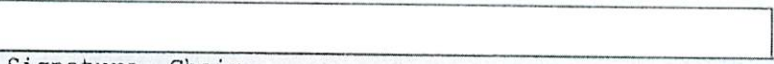

 Date 9-25-14
Signature, Chair, College/School
Curriculum Council for: CNSM

 Date 7/26/14
Signature, Dean, College/School
of: CNSM

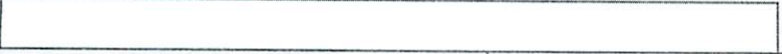


Offerings above the level of approved programs must be approved in advance by the Provost.




 Date 
Signature of Provost (if above level of approved
programs)


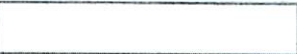

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

 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 BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.

5/21/2013

DVM 639 / Biol 6XX / MSL 6XX VETERINARY VIROLOGY

SYLLABUS – SPRING

Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:

Title: Veterinary Virology
Number: DVM 639, BIOL 6XX, MSL 6XX
Credit: 2
Prerequisites: Successful completion of first semester of veterinary courses (DVM 639)
or permission of instructor (Biol6XX)
Location: TBD
Meeting time: Once a week for two lectures

2. Instructor Contact Information:

Name: Dr. Karsten Hueffer
Office Location: 2W02 Arctic Health Research Building
Office Hours: By appointment
Office Phone: 907-474-6313
Email: khueffer@alaska.edu

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

3. Course Reading/Materials:

Textbook Title: Fenner's Veterinary Virology
Editors: N. James MacLachlan and Edward J. Dubovi
Edition: 4th Edition
Publisher: Academic Press
ISBN: 978-0-12-375158-4

4. Course Description:

The course will include an introduction to veterinary virology in which the basics of viral structure, differences between virus families and their replication cycles will be discussed. A general explanation of viral mediated damage at the cellular level and the basic principles of viral entry, spread in the host and pathogenesis will be presented. Host response to viral infection, innate and acquired immunity, and the role of viral vaccines in disease prevention will be explained. Each viral family and major viral diseases will be discussed.

5. Course Goals:

To present the basics of veterinary virology and the characteristics of each virus family; how different viruses interact with their respective hosts at molecular, cellular, organismal and population levels in causing disease; clinical diseases and pathologic lesions associated with major viral diseases with emphasis on practical considerations related to accurate diagnosis, prevention and management of viral diseases.

- Basic principles of viral taxonomy, structure and replication
- Host-viral interactions that result in disease, viral persistence, and/or recovery

For each virus family, the major viral diseases will be discussed including

- Host range, reservoir and incidental hosts
- Common and scientific names of diseases
- Clinical presentations of disease, pathogenesis
- Transmission of virus, virus shedding, factors affecting spread
- Prevention and control

6. Student Learning Outcomes:

Overall Learning Goals:

Understanding of:

- General virus structure, genome, and life cycle
- Fundamental differences between each virus families
 - By genome composition
 - By capsid structure
 - By genome structure
 - By pathogenesis strategy
- Host-Virus interactions
- Methods and techniques used in virus diagnosis and reference

Overall Learning Outcomes:

Upon completion of the course the student will be able to:

- Describe general animal virus life cycle
- Predict replication strategy of animal viruses based on genome composition
- Apply concepts of animal virus structure to replication cycle
- Evaluate different control measures of animal viral diseases
- Compare possibilities and limits of methods and techniques used in veterinary virology diagnosis and reference
- Remember each animal virus family and its representative members
- Apply veterinary virology concepts to viral infectious disease control, prevention, and treatment

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 spend 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.

8. Course Calendar:

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

9. Course Policies:

Attendance:

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

- **Classroom Behavior:**
Any type of behavior in the classroom that is disruptive, distracting, or disrespectful to the instructor or to your fellow students will not be tolerated and will result in dismissal from the classroom. This includes, but is not limited to, disrespectful comments, and the use of tobacco products. All cell phones or other such devices must be silenced while in the classroom. Do not browse the Internet, text message or IM while in the classroom. You can use such devices for note taking or other class related activities.
- **Plagiarism:**
Plagiarism is the overt or covert use of other people's work or ideas without acknowledgement of the source. This includes using ideas or data from a classmate or colleague without permission and acknowledgement, including sentences from journal articles in your writing without citing the author, or copying parts of a website into your essay. Plagiarism and cheating are serious offenses that violate the student code of conduct which may result in an "F" in the course and/or referral to the university disciplinary committee.

10. Evaluation:

- **Grade Distributions:**
Midterm Exam 100 points
Final Exam 100 points
Total points 200

There will be one midterm exam and one final exam. 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 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. 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:**
Grades will be calculated on
100-point scale
- | | | |
|----|---------|---|
| A+ | 96-100 | % |
| A | 92-95.9 | % |
| A- | 88-91.9 | % |
| B+ | 84-87.9 | % |
| B | 80-83.9 | % |
| B- | 76-79.9 | % |
| C+ | 72-75.9 | % |
| C | 68-71.9 | % |
| 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/>).

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 Schedule

Week	Lecture Topics (2 lectures per week)
1 Jan14-20	Viral Structure / Viral Replication
2 Jan 21-27	Viral Pathogenesis 1 / Viral Pathogenesis 2
3 Jan 28-Feb 3	Orthomyxoviridae / Paramyxoviridae
4 Feb 4 – 10	Herpesviridae 1&2
5 Feb 11-17	Togaviridae / Flaviviridae
6 Feb 18-24	Retroviridae 1 / Retroviridae 2
7 Feb 25-Mar2	Reo / Circo & Parvoviridae
March 3	Exam 1 / Prions and TSEs
8 Mar 7-11	Rhabdo / Picorna / Caliciviridae & Vesiculoviruses
9 Mar 14-18	SPRING BREAK
10 Mar 21-25	Viral immunology and Viral Diagnostic Tests
12 Mar 28-Apr 1	Pox / Papilloma & Polyomavidae
13 Apr 4-8	Viral Vaccines / Interferons & Antivirals
14 Apr 11-15	Corona/ Filo/Borna & Arteriviridae
15 Apr 18-22	Bunya/Arena & Birnaviridae
16 Apr 25-29	Adenoviridae / The Art of Diagnosis
17 May 3-6	Final Cumulative Exam