

7-GNC Revised 4/15/2015

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	<a href="mailto:cagriseto@alaska.edu">cagriseto@alaska.edu</a>	Faculty Contact	Karsten Hueffer & Arleigh Reynolds Assoc. Dean

**1. ACTION DESIRED**

(CHECK ONE):

Trial Course

New Course

X

**2. COURSE IDENTIFICATION:**

Dept

DVM

Course #

638

No. of Credits

2

Justify upper/lower division status & number of credits:

Professional Program required course – see CSU syllabus attached

**3. PROPOSED COURSE TITLE:**

Veterinary Parasitology

**4. To be CROSS LISTED?**  
YES/NO

NO  
YES

If yes, Dept:

BIOL  
MSL

Course #

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)

1

2

3

4

5

X

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/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 638 Department of Veterinary Medicine**

**2 Credit Offered Spring**

**Veterinary Parasitology**

Biology of helminth, arthropod, and protozoan pathogens of animals with emphasis on common infectious diseases encountered in veterinary practice will be discussed. In addition the course will discuss treatment and management options for parasitic infections of domestic animals.

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

**Biol 6XX Department of Veterinary Medicine**

**2 Credit Offered Spring**

**Veterinary Parasitology**

Biology of helminth, arthropod, and protozoan pathogens of animals with emphasis on common infectious diseases encountered in veterinary practice will be discussed. In addition the course will discuss treatment and management options for parasitic infections of domestic animals.

**Pre-requisites: Permission of instructor.**

**MSL 6XX Department of Veterinary Medicine**

**2 Credit Offered Spring**

**Veterinary Parasitology**

Biology of helminth, arthropod, and protozoan pathogens of animals with emphasis on common infectious diseases encountered in veterinary practice will be discussed. In addition the course will discuss treatment and management options for parasitic infections of domestic animals.

**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)**

<b>14. PREREQUISITES</b>	<b>Successful completion of first Semester Veterinary Courses or permission of instructor</b>
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These will be *required* before the student is allowed to enroll in the course.

<b>15. SPECIAL RESTRICTIONS, CONDITIONS</b>	<b>Professional Veterinary Medical program student or permission of instructor</b>
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<b>16. PROPOSED COURSE FEES</b>	<b>TBD</b>
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Has a memo been submitted through your dean to the Provost for fee approval?

Yes/No	<b>Yes</b>
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**17. PREVIOUS HISTORY**

Has the course been offered as special topics or trial course previously?	<b>No</b>
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Yes/No

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

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**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	<input checked="" type="checkbox"/>	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)
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**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 on 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.*

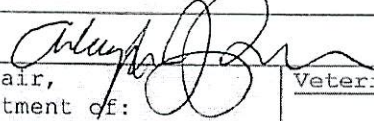
**Biology & Wildlife, Chemistry or SNRE students may request admission to course for research or professional development. Vet Med will be providing curriculum in biomedical sciences which was not available previously.**


**JUSTIFICATION FOR ACTION REQUESTED**

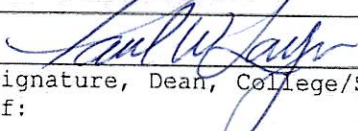
The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory.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

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

	Date	9/26/14
Signature, Dean, College/School of: <u>CNSM</u>		

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: <u>Curriculum Review</u> <u>GAAC</u>		
<u>Core Review</u> <u>SADAC</u>		

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](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.

Revised 4/15/2015

# **DVM 638 Veterinary Parasitology**

## **SYLLABUS – SPRING**

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**Department of Veterinary Medicine, University of Alaska Fairbanks**

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1. Course Information:

Title: **Veterinary Parasitology**

Number: DVM 638, BIOL 6XX, MSL 6XX

Credit: 2

Prerequisites: Successful completion of first semester of veterinary courses (DVM638), or permission of instructor (Biol6XX, MSL6XX)

Location: TBD

Meeting time: Twice a week lectures - TBD

2. Instructor Contact Information:

Name: Dr. Karsten Hueffer with Lora Ballweber (CSU by distance)

Office Location: Arctic Health Research Building 2W02

Office Hours: By appointment

Office Phone: 907-474-6313

Email: [khueffer@alaska.edu](mailto: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:

There is no required textbook. There are several good veterinary parasitology texts as well as special issues available. Some recommended resources include:

-Veterinary Parasitology. 2007. Taylor MA, Coop RL and Wall RL. Blackwell Publishing

-Veterinary Clinics of North America: Food Animal Practice, Ruminant Parasitology. Ballweber LR, guest editor. 2006. WB Saunders, Co., Philadelphia, PA.

- Georgi's Parasitology for Veterinarians. Bowman DD. 2013. Elsevier

- Medical and Veterinary Entomology. 2009. 2nd edition. Mullen G and Durden L. Academic Press

-Feline Clinical Parasitology. 2002. Bowman DD, Hendrix CM, Lindsay DS, Barr SC. Iowa State University Press

**Additional Class Material:** Class notes

4. Course Description:



Biology of helminth, arthropod, and protozoan pathogens of animals with emphasis on common infectious diseases encountered in veterinary practice will be discussed. In addition the course will discuss treatment and management options for parasitic infections of domestic animals.

**5. Course Goals:**

To present the basics of veterinary parasitology and the characteristics of important family of parasites; how different parasites interact with their respective hosts at organismal and population levels in causing disease; clinical diseases and pathologic lesions associated with major parasitic diseases with emphasis on practical considerations related to accurate diagnosis, prevention and management of those parasites.

**6. Student Learning Outcomes:**

**At the end of this course students will be able to:**

1. Name and distinguish the prevalent parasites of companion and food animals to the degree of accuracy that identifies an organism with a particular disease.
2. Recognize the clinical signs common to or suggestive of parasitic infection.
3. Recognize the pathologic changes consistent with parasitic disease.
4. Explain how developmental patterns of various parasitic agents are related to the pathology induced in the host.
5. Extrapolate aspects of biology and pathology from a known group of organisms to a related but unfamiliar organism.

**7. Instructional Methods:**

The class will meet two hours each week as a group for lectures and discussions. Materials will be delivered primarily through classroom interaction. Supplementary readings and computer activities may also be included.

**Lectures**

The lectures will emphasize selected aspects of parasitology that are applicable to the practice of veterinary medicine. Lectures are intended to provide illustration, clarification, and updating of information. My philosophy of lecturing is that it is a coaching session to help you understand which information is most important and how to use it. But, the lecture is NOT meant to be the transfer of the exact body of knowledge that is useful in the practice of veterinary medicine. There is far more to learn than I can recite in our limited time together.

**Class Notes**

Class notes will serve as additional study material. That will illustrate the principles and implications of parasitology in Veterinary Medicine

**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 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:**

Students will be evaluated based on four quizzes and one exam held during the semester, including the final exam. The philosophy is that quizzes provide an excellent learning opportunity and students should expect these quizzes to be a rigorous test of knowledge, understanding and ability to apply principles and concepts presented during the course. The final exam will be 75% comprehensive. Quizzes are closed book and delivered through the web. Quizzes are open 8 AM Monday and close 5 PM Wednesday of the week indicated on the schedule. They may be taken anytime during the open period; however, once started, you will have 50 minutes to complete it. In accordance with policy, you must submit the quiz for it to count. This course will be graded as follows on a percentage 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	%

Quiz 1 Introduction, Ectoparasites	50 pts
Quiz 2 Protozoans	50 pts
Quiz 3 Acanthocephalans, Nematodes I	50 pts
Quiz 4 Nematodes II	50 pts
Final Exam Cestodes, Trematodes, Comprehensive	200 pts
Total points	400



**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 Schedule (order may be subject to change)**

### **WEEK TOPIC**

Week 1	Introduction to Parasitology / Intro to Ectoparasites / Ticks / Mites
Week 2	Mites / Lice / Fleas Fleas / Myiasis
Week 3	Myiasis / Other Dipterans Intro to Protozoans / Coccidians
Week 4	Quiz 1 [50 points, Intro through Ectoparasites] Coccidians Coccidians
Week 5	Coccidians Hemoprotozoans
Week 6	Hemoprotozoans / Flagellates Flagellates
Week 7	Quiz 2 [50 points, Protozoans] Intro to Helminths / Acanthocephalans Intro to Nematodes / Ruminant Strongyles
Week 8	Ruminant Strongyles / Equine Strongyles Equine Strongyles / Anthelmintic Resistance
Week 9	Anthelmintic Resistance / Lungworms
Week 10	Quiz 3 [50 points, Acanths through Anthelmintic Resistance Lungworms / Ascarids / Hookworms]
Week 11	Heartworm and other Spirurids Pinworm / Strongyloides



Week 12	Whipworms / Capillarids Trichinella / Intro to Trematodes
Week 13	Quiz 4 [50 points, Lungworms through Trichinella] Trematodes Trematodes / Cestodes
Week 14	Cestodes
Week 15	Final Exam [200 points: 50 points –Trematodes, Cestodes; 150 points comprehensive] <b>As scheduled by UAF</b>