

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.

9. CONTACT HOURS PER WEEK:

3	LECTURE hours/week	0	LAB hours/week	0	PRACTICUM hours/week
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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

RESTRICTIONS ON ENROLLMENT (if any)

14. PREREQUISITES

Acceptance in Professional Veterinary Medical Program or permission of instructor

APPROVALS: Add additional signature lines as needed.

	Date 10-2-14
Signature, Chair, College/School Curriculum Council for:	CNSM

DVM 637 Veterinary Bacteriology and Mycology

SYLLABUS – SPRING

Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:

Title: **Veterinary Bacteriology and Mycology**
Number: 637
Credit: 3
Prerequisites: Successful completion of first semester of veterinary courses

Meeting time: Three times a week for one hour lectures exact time TBD

2. Instructor Contact Information:

Name: Dr. Karsten Hueffer
Office Location: Antimicrobial Research Building 21400

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

5. Course Goals:

To present the basics of veterinary bacteriology & mycology and the characteristics of each family of bacteria or fungi; how different microbes interact with their respective hosts at molecular, cellular, organismal and population levels in causing

diseases with emphasis on practical considerations related to accurate diagnosis

Textbooks

There are many reference books that you may find helpful as a supplement to the

lectures. A wide variety of general, allied health, and health professions microbiology textbooks are available in the library. Various veterinary medical textbooks have large sections devoted to infectious diseases. Within these discussions of disease, the ecology, pathogenic mechanisms and other

frequently reviewed.

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.
- Classroom Behavior:
Any type of behavior in the classroom that is disruptive, distracting, or

graded These sedimentary rocks

Tentative Lecture Schedule

Week 1 1/14-1/20

Introduction: Bacterial Structure & Pathogenesis
of bacterial infections

Week 2 1/21-1/27

Miscellaneous

Genetics, Antimicrobial Resistance
Antimicrobials

Week 3 1/28-2/3

Gram-negative

Streptococcus cont., *Staphylococcus*
Staphylococcus cont., *Rhodococcus*

Week 4 2/4-2/10

Corynebacterium, *Trueperella*
Listeria,
Erysipelothrix, *Actinomycetes*

Week 5 2/11-2/17

Bacillus
Clostridium
Clostridium cont.

Week 6 2/18-2/24

Non-spore forming anaerobes
Exam 1
Enterobacteriaceae, *E. coli*

Week 7 2/25-3/2

E. coli, *Klebsiella*, *Protococcus*

Week 13 4/18-4/22

Ehrlichia, Coxiella

Dermatophytes
Dimorphic Fungi

Week 14 4/25-4/29

Miscellaneous Fungi: *Aspergillus, Pneumocystis,*
Mycotoxin production

Antifungal drugs: *Penicillins, Griseofulvin, Fluconazole*

Disinfectants, Course conclusion

Week 15 5/2-5/6

Examination III / Comprehensive exam as

scheduled by University