**ANSC 410 VETERINARY ENTOMOLOGY and PARASITOLOGY**

**(3 Credits)**

**T, R @ 10:50 – 12:05**

**ABB 136**

**Instructors:**

**Dr. Greg Johnson (Vet Ent)**

**Dr. Shannon Moreaux (Parasitology)**

**Date Lecture Topic**

January 14 1 Introduction to veterinary entomology

Effects of arthropods on livestock health

19 2 Classification/Insect biology

21 3 Epidemiology of vector-borne diseases/Livestock IPM

26 4 Mosquitoes

28 5 Mosquitoes (continued)

February 2 6 Black flies, biting midges

4 7 Bots and grubs (horse bots, cattle grubs, nasal bots)

9 -- Exam 1

11 8 Biting flies (horn fly, stable fly, keds, tabanids)

16 9 Biting flies (continued)

18 10 Non-biting flies (house fly, face fly)

23 11 Fleas and lice

25 12 Mites and Ticks

March 1 13 Ticks (continued)

3 14 Ticks

8 15 Emerging arthropod issues/Vectors and vector-borne diseases

10 -- Exam 2

14 - 18 Spring Break

March 22 – April 28 Parasitology – Dr. Moreaux

May 4 Scheduled Final Exam: 12:00 – 1:50 PM, Rm. 136 ABB

**General Information for Vet Ent**

**Instructor Contact Information**

Dr. Greg Johnson

Dept. Animal & Range Sciences

Marsh Lab, Rm 70

994-3875

[gdj@montana.edu](mailto:gdj@montana.edu)

Office hours: Tuesday/Thursday, time TBA or by appointment, Rm. 117 ABS

**Textbook:** None required. Lecture notes and reading assignments will be placed on my website

<http://animalrange.montana.edu/faculty/entomology/index.html>

**Grading System for Vet Ent:**

Two 100-point lecture exams, consisting of some combination of T/F, short answer, matching/multiple choice and short essay questions, will each count 50% of the Vet Ent grade. Make-up exams are given only under certain circumstances.

Semester grade will be 2/3 Vet Ent + 1/3 Parasitology. Letter grades will be assigned following the university grading scale: <http://www.montana.edu/catalog/academic/acad6.html>

**Learning Objectives:**

Students completing the Vet Ent portion of the course will be able to 1) recognize the major groups of arthropod pests that attack livestock and companion animals; 2) understand the negative impacts these pests have on animal health, including the diseases they transmit; 3) understand the principles of integrated pest management and tactics that are employed to reduce or eliminate economically damaging populations of these pests; and 3) discuss the emerging arthropod-borne problems threatening livestock production and health.

**Attendance:**

While I will not take roll, class attendance is important since many things will be discussed in class that are not included in the lecture notes. Not attending class will affect your ability to do well on the exams.

**Cell phones:**

All phones should be turned off or muted during class. **Please do not use them in class;** it is common sense and common courtesy. Sending or viewing a text message, email, website, etc. in class is disrespectful and distracting to the instructor and classmates and will not be tolerated.