

BIOL 3840/5840 - ENTOMOLOGY FALL 2015
SYLLABUS & COURSE POLICIES

Lecture: BC 1025 (9-9:50 a.m. M, W, F)

Laboratory: BC 2060 (9:30-12:20 PM) Section A (9:30-10:30 AM) Section B (10:30-11:30 AM)

Instructor: Dr. Mark Blackmore

Research Lab: BC 2060, Tel. 245-6422

relationships among the major taxa of life, and provide illustrative examples") and 5 (Interpret ecological data pertaining to the behavior of the individual organism in its natural environment; to the structure and function of the individual organism in its natural environment; to the structure and function of the individual organism in its natural environment; to the structure and function of the individual organism in its natural environment; to the structure and function of the individual organism in its natural environment").

Catalogue Description: BIOL 3840/5840 Introduction to the study of insect biology including ecology, behavior and taxonomy. Laboratory includes field observation, sampling and identification of local fauna. **4 credit hours. Prerequisite:** BIOL 1107K, BIOL 1108K; admission to graduate program (BIOL 5840 only).

Course requirements & grading policy: Students are expected to attend all scheduled lectures and laboratory sessions, take examinations and turn in assignments on time. **Schedule of assignments:** Field assignments are scheduled on a weekly basis, but scheduling depends on availability at the field stations. Daily attendance will

immediate family). Due to the logistical problems of setting up laboratory practical exams, make-ups of these tests may not be available. Lecture topics will be covered in 2 one-hour examinations and a final examination. Examinations will consist of multiple choice (true/false, multiple choice) and subjective (essay, diagrams etc.) questions about material presented in-class or in the text. **Exams will be retained by the instructor for 1 calendar year;** students may arrange to see these

identification), reading material assigned for the lab also may be covered on these tests but students will not be graded on this material. **Final Examination:** The final examination will consist of a written examination. Grading of the collection will include consideration of mounting techniques, appropriateness of mounts, condition and preservation of specimens, proper labeling and identification, as well as content (see board). Specifically

Oral presentations and curatorial duties to improve the teaching collection also may be assigned;

Points for the course will be allocated as follows:

LABORATORY	LECTURE
Quizzes: 100 pts (20 each, two exams dropped)	Hour Exams: 200 pts

700-799	C
600-699	D
< 600	F

Tentative Lecture Schedule – Fall 2015

Overview of Arthropods	Ch. 1.
Insect Body Plan: Internal Characteristics	Ch. 3
Development & Specialization	Ch. 4
Insect Ecology	Ch. 5
Behavior & Sociality	Ch. 6 & 7
Parasitism & Predation	Ch. 8 & 9
Interactions with the Human World	Ch. 10
Pest Management & Household Insects	Ch. 11 & 12

Tentative lecture exam dates: Sept. 14, Oct. 19, Nov. 23. **Final exam 8-10 a.m. Friday Dec. 11**

Tentative Lab Schedule (subject to weather conditions)

<u>Week Beginning</u>	<u>Topic/Activity</u>	<u>Assigned Reading</u>
August 31	Introduction of insects; insect orders; Apterygota; Quiz 1; Ephemeroptera & Odonata; Collecting trip	pp. 378-383
Sept. 7	Aquatic collecting trip	
Sept. 14	Quiz 2; Coleoptera & orders	pp. 383-389
Sept. 21	Isopoda, Dermaptera, Plecoptera Diphtherostoma & Thysanoptera; Collecting trip	pp. 389-399
Oct. 5	Lab practicum I; Check collections	
Oct. 12	Coleoptera; Collecting trip	pp. 415-429
Oct. 19	Quiz 4; Hymenoptera, Mecoptera	pp. 576-661
Oct. 26	Trichoptera; Lepidoptera	pp. 439-449
Nov. 2	Quiz 5; Siphonaptera; lower Diptera	pp. 450-465
Nov. 9	Diptera cont.	
Nov. 16	Quiz 6; TBA Collections	
Nov. 23	Thysanoptera Bank. Labs do not meet	
Nov. 30	Lab practicum II	

BIOL 5840: Graduate students will complete the following work *in addition to* assignments described above:

- (1) Prepare 10-15 minute Powerpoint presentations on topic assigned by instructor. These will be presented to the class during one of the lecture or lab periods.
- (2) Design a study that uses data from class collections and prepare a report in the style of the Journal of Environmental Entomology. (See me for more details)