Entomology – 10349 – Biology 312 – A01 **Fall 2016**

Instructor:
Steve Perlman
Cunningham 160F
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Office hours: Thu 2-3 or by appointment

Lab Instructor:
Neville Winchester
Cunningham 228

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by appointment

When and where:
Lectures: Mondays and Thursdays, 10am-11:20am, Elliott 061
Labs: Monday (2:30pm-5:20pm) or Tuesday (2:30pm-5:20pm), Cunningham 228

Course description:
This course will provide a detailed introduction to the field of entomology – the scientific study of insects, with an emphasis on insect evolution, ecology, and systematics. Lectures will include: an overview of insect morphology, internal anatomy, and physiology, and insect and arthropod phylogenetic relationships. Lectures will also include topics in insect ecology and evolution, including sexual selection and mating systems, sociality, medical entomology, and plant-insect interactions. In addition to lecture midterm and final exams, there will be one written assignment, which will consist of a paper critique. The laboratory portion of the course concentrates on insect identification, and collecting and curating techniques. As a lab project, students will prepare an insect collection.

Textbook: There is no required text. There will be required readings consisting of journal articles and book chapters (texts on reserve at the library or uploaded onto Course Spaces).

BIOL 312, Fall 2016 – Grade Distribution and Important Dates:

Lecture mid-term (Thu. Oct. 20)	20%
Lecture final (exam period TBA)	25%
Written assignment (due Mon. Nov. 28)	10%
Lab quiz 1 (week of Oct. 3)	5%
Lab quiz 2 (week of Nov. 14)	5%
Lab test 1 (week of Oct. 17)	10%
Lab test 2 (week of Nov. 21)	10%
Lab project – insect collection:	
part 1 of collection due week of Oct. 24	3%
part 2 of collection due Fri. Dec. 2	12%

Penalty for late submission of the written assignment: 5% per day.

Note these important dates:
Last day for adding first term courses – Fri. Sep 23
Last day for withdrawing from first-term courses without penalty of failure – Mon. Oct 31

Missed Tests – If you miss (or know beforehand that you will be missing) a test because of illness, accident, family affliction, or commitments as a UVic athlete, you are required to contact the appropriate instructor in a timely manner after the test (within ten calendar days). You are required to provide supporting documentation (example: a doctor's note, etc.) Documentation for such an absence will not normally be accepted beyond the ten calendar days and will result in a mark of zero. Except in the case of a missed final exam, all paperwork and any special arrangements for an absence must be completed by the last day of classes.

Students are reminded that final exams in the Faculty of Science run from December 5 through December 19. Final exams will not be rescheduled for students who make travel plans that conflict with the officially scheduled final exam for this course.
Please note that the Biology department does not offer supplemental final exams.

The convention used for assigning letter grades is as follows:
A+ (90-100), A (85-89), A- (80-84), B+ (77-79), B (73-76), B- (70-72), C+ (65-69), C (60-64), D (50-59), F (0-49)

Academic Integrity and Preventing Plagiarism and Cheating - Academic integrity matters are governed by UVic's Policy on Academic Integrity. Please read this policy: http://web.uvic.ca/calendar2016-09/undergrad/info/regulations/academic-integrity.html

Please read this useful resource for avoiding cheating and plagiarism: UVic Libraries' plagiarism guide: http://library.uvic.ca/instruction/cite/plagiarism.html

Course Experience Survey (CES)

I value your feedback on this course. Towards the end of term you will have the opportunity to complete a confidential course experience survey (CES) regarding your learning experience. The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future. When it is time for you to complete the survey, you will receive an email inviting you to do so. If you do not receive an email invitation, you can go directly to http://ces.uvic.ca. You will need to use your UVic NetLink ID to access the survey, which can be done on your laptop, tablet or mobile device.

BIOL 312 Tentative Lecture Schedule – Fall 2016:

Thurs. Sept. 8	1. Introduction and Importance of Insects
Mon. Sept. 12	2. Morphology
Thurs. Sept. 15	3. Introduction to Phylogenetics
Mon. Sept. 19	4. Ecdysozoa to Arthropods
Thurs. Sept. 22	5. Hexapods to Pterygota, Flight
Mon. Sep. 26	6. Guest Lecture: Insect Conservation
Thurs. Sept. 29	7. Guest Lecture: Forest Entomology
Mon. Oct. 3	8. Neoptera
Thurs. Oct. 6	9. Neoptera to Holometabola, Metamorphosis
Mon. Oct. 10	Thanksgiving Holiday
Thurs. Oct. 13	10. Holometabola
Mon. Oct. 17	11. Guest Lecture: Dr. Joel Gibson, Entomology Curator, RBCM
Thurs. Oct. 20	**Midterm Exam**
Mon. Oct. 24	12. Internal Anatomy and Physiology
Thurs. Oct. 27	13. Nervous System and Sensory Biology
Mon. Oct. 31	14. Development, Life Histories
Thurs. Nov. 3	15. Sexual Selection, Mating Systems
Mon. Nov. 7	16. Parasitoids, Predators, Parasites
Thurs. Nov. 10	**Reading Break - No Class**
Mon. Nov. 14	17. Insect Symbionts
Thurs. Nov. 17	18. Medical Entomology
Mon. Nov. 21	19. Plant-Insect Interactions I – Herbivory
Thurs. Nov. 24	20. Plant-Insect Interactions II – Pollination
Mon. Nov. 28	21. Insect Sociality
Thurs. Dec. 1	22. Pests and Transgenics

BIOLOGY 312 LAB SCHEDULE, FALL 2016

Dr. N. Winchester: winchest@uvic.ca

LAB#	WEEK OF	TOPIC
1	Sept. 12	Insects and Biodiversity – Introduction
2	Sept. 19	Insect External Anatomy
3	Sept. 26	Aquatic Insect Biodiversity
4	Oct. 3	Lepidoptera Biodiversity, **Quiz #1**
5	Oct. 10	Thanksgiving **– NO FORMAL LABS**
6	Oct. 17	**Test #1 - Identification**
7	Oct. 24	Diptera Biodiversity, **Part 1** of insect collection is due
8	Oct. 31	Coleoptera Biodiversity
9	Nov. 7	Reading Break – **NO FORMAL LABS**
10	Nov. 14	Hymenoptera Biodiversity, **Quiz #2 Biodiversity Modules**
11	Nov. 21	**Test #2 – Identification**
12	Nov. 28	Final work-up of insect collection

MARKS	
Quiz #1	5%
Quiz #2	5%
Test #1	10%
Test #2	10%
Insect collection part 1	3%
Insect collection part 2	12%
Total	**45%**

NOTE:

1. Each lab includes several biodiversity modules that are meant to introduce you to the diverse field of entomology.
2. Format and details of the lab tests will be discussed by your lab instructor. The final lab test (test #2) is not cumulative except for order and Hemiptera identification.
3. Details of the insect collection will be discussed during the term. The insect collection is comprised of 2 components. The first component (Part 1) is due in lab during the week of Oct. 24th. **The second component (Part 2) is due in lab on December 2th before 4:30pm.**