Entomology - 10361 - Biology 312 - A01

Fall 2018

Instructor:	Lab Instructor:	
Steve Perlman	Neville Winchester	
Cunningham 160F	Cunningham 228	
Phone: 721-6319		
\mathbf{F} \mathbf{H} \mathbf{A} \mathbf{A}	\cdot 1 \cdot \cdot	

Email: stevep@uvic.ca Office hours: Mon 1:30-2:30 or by appointment

winchest@uvic.ca by appointment

When and where:

Lectures: Mondays and Thursdays, 10am-11:20am, Cunningham 146 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 (uploaded onto Course Spaces).

BIOL 312, Fall 2018 – Grade Distribution and Important Dates:

Lecture mid-term (Thu. Oct. 18)	20%
Lecture final (exam period TBA)	25%
Written assignment (due Thu. Nov 29)	10%
Lab quiz 1 (week of Oct. 1) Lab quiz 2 (week of Nov. 5) Lab test 1 (week of Oct. 15) Lab test 2 (week of Nov. 19) Lab project – insect collection:	5% 5% 10% 10%
part 1 of collection due week of Oct. 22	1%
parts 2 & 3 of collection due Mon. Dec. 3	14%

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

Note these important dates:

Last day for adding first term courses - Fri. Sep 21

Last day for withdrawing from 1st term courses without penalty of failure – Wed. 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 8 through December 22. 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/calendar2018-09/undergrad/info/regulations/academicintegrity.html

Please read this useful resource for avoiding cheating and plagiarism: UVic Libraries' plagiarism guide: http://www.uvic.ca/library/research/citation/plagiarism/index.php

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 <u>http://ces.uvic.ca</u>. You will need to use your UVic NetLink ID to access the survey, which can be done on your laptop, tablet or mobile device.

A note to remind you to take care of yourself:

Do your best to maintain a healthy lifestyle this semester by eating well, exercising, getting enough sleep and taking some time to relax. This will help you achieve your goals and cope with stress. All of us benefit from support during times of struggle. You are not alone.

- Counselling Services - Counselling Services can help you make the most of your university experience. They offer free professional, confidential, inclusive support to currently registered UVic students. <u>https://www.uvic.ca/services/counselling/</u>

- Health Services - University Health Services (UHS) provides a full service primary health clinic for students, and coordinates healthy student and campus initiatives. <u>http://www.uvic.ca/services/health/</u>

- Centre for Accessible Learning - The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate

accommodations <u>https://www.uvic.ca/services/cal/</u>. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

- Elders' Voices - The Office of Indigenous Academic and Community Engagement (IACE) has the privilege of assembling a group of Elders from local communities to guide students, staff, faculty and administration in Indigenous ways of knowing and being. <u>https://www.uvic.ca/services/indigenous/students/programming/elders/index.php</u>

BIOL 312 Tentative Lecture Schedule – Fall 2018:

Thurs. Sept. 6 Mon. Sept. 10 Thurs. Sept. 13 Mon. Sept. 17 Thurs. Sept. 20 Mon. Sep. 24 Thurs. Sept. 27 Mon. Oct. 1 Thurs. Oct. 1 Thurs. Oct. 4 Mon. Oct. 8 Thurs. Oct. 15 Thurs. Oct. 18 Mon. Oct. 22 Thurs. Oct. 25 Mon. Oct. 29 Thurs. Nov. 1 Mon. Nov. 5 Thurs. Nov. 1 Mon. Nov. 5 Thurs. Nov. 15 Mon. Nov. 12 Thurs. Nov. 15 Mon. Nov. 19 Thurs. Nov. 22 Mon. Nov. 26 Thurs. Nov. 29 Mon. Doc. 3	 Introduction and Importance of Insects Morphology Introduction to Phylogenetics Phylogenetics and Ecdysozoa Arthropods to Hexapods Pterygota and flight, Neoptera Neoptera continued Holometabola and Metamorphosis Holometabola continued Thanksgiving Holiday Finishing Holometabola Internal Anatomy and Physiology Midterm Exam Nevelopment, Life Histories Sexual Selection, Mating Systems Insect Sociality Plant-Insect Interactions – Herbivory Plant-Insect Interactions – Pollination Reading Break - No Class Guest Lecture: Insect Conservation TBA Parasitoids, Predators, Parasites Insect Symbionts Medical Entomology
Mon. Dec. 3	23. Pests and Transgenics

Dr. N. Winchester: winchest@uvic.ca			
LAB#	WEEK OF	TOPIC	
1	Sept. 10	Insects and Biodiversity – Introduction	
2	Sept. 17	Insect External Anatomy	
3	Sept. 24	Aquatic Insect Biodiversity	
4	Oct. 1	Lepidoptera Biodiversity, Quiz #1 Biodiversity	
	Modules		
5	Oct. 8	Thanksgiving – NO FORMAL LABS	
6	Oct. 15	Test #1 - Identification	
7	Oct. 22	Diptera Biodiversity, Part 1 of insect collection is	
due			
8	Oct. 29	Coleoptera Biodiversity	
9	Nov. 5	Hymenoptera Biodiversity, Quiz #2 Biodiversity	
Modules			
10	Nov. 12	Reading Break – NO FORMAL LABS	
11	Nov. 19	Test #2 – Identification	
12	Nov. 26	Final work-up of insect collection	
MARKS			
Quiz #1		5%	
Quiz #2		5%	
Test #1		10%	
Test #2		10%	
Insect collec	tion part 1	1%	
Insect collec	tion part 2	7%	
Insect collection part 3 7%		7%	
Total	-	45%	
NOTE:			

BIOLOGY 312 LAB SCHEDULE, FALL 2018

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 identification and Hemiptera identification.

3. Details of the insect collection will be discussed during the term. The insect collection is comprised of 3 components. The first component (Part 1) is due in lab during the week of Oct. 22^{nd} . The second component (Part 2) and the third component (Part 3) is due in lab on December 3^{rd} before 4:30pm.