

Entomology – 10353 – Biology 312 – A01

Lecturer: Lab Instructor:

Neville Winchester Cunningham 232/228

Email: winchest@uvic.ca

Office hours: By appointment

Fall 2019

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 ecology, and systematics. Lectures will include: an overview of insect ecology by taking an ecosystem approach to biodiversity and conservation issues. The laboratory portion of the course concentrates on insect identification, collecting and curating techniques. As a lab project, students will prepare an insect collection and measure biomass on selected arthropod groups.

Textbook: There is no required text. Lectures will be structured from the primary literature and general textbooks.

BIOL 312, Fall 2019 – Grade Distribution and Important Dates:

Lecture mid-term (Mon. Oct. 21) 25% Lecture final (exam period TBA) 25%

Lab test 1 (week of Oct. 7) 15% Lab test 2 (week of Nov. 18) 15% Lab project – insect collection:

Part A of collection due (Dec. 2) 15%. Part of collection due week of (Dec. 4) 5%

Note these important dates:

Last day for adding first term courses – Fri. Sep 20

Last day for withdrawing from 1st term courses without penalty of failure –Thurs. 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 7 through December 21. 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/academic-integrity.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 <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.

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. <https://www.uvic.ca/services/counselling/>*

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

- Centre for Accessible Learning - *The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations <https://www.uvic.ca/services/cal/>. 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. <https://www.uvic.ca/services/indigenous/students/programming/elders/index.php>*

BIOL 312 Tentative Lecture Schedule – Fall 2019
Insect Biodiversity and Conservation

Date	Overview
Sept. 5	1. Introduction and Insect Diversity
Sept. 9	2. The importance of Insects
Sept. 12	3. Insects, Entomologists, and the Conservation of Biodiversity
Sept. 16	4. Classification and Ecology of Individual Insects
Sept. 19	5. Insect responses to Abiotic Conditions
Sept. 23	6. Insect dispersal and the importance of flight
Sept. 26	7. Insects and metapopulation biology
Sept. 30	8. Insect Biodiversity of the Nearctic Region
Oct. 3	9. Invasive species and conservation consequences
Oct. 10	10. Insects and forests
Oct. 14	11. Thanksgiving Holiday - no class
Oct. 17	12. Canopy entomology
Oct. 21	13. Midterm exam
Oct. 24	14. Insects in an agriculture landscape
Oct. 28	15. Plant-Insect Interactions – Herbivory
Oct. 31	16. Plant-Insect Interactions – Pollination
Nov. 4	17. Parasitoid biodiversity and conservation
Nov. 7	18. Insects as Regulators of Ecosystem Processes
Nov. 11	19. Remembrance Day – no class
Nov. 14	20. Reading Break - no class
Nov. 18	21. Decomposition and Pedogenesis
Nov. 21	22. Insect apocalypse 1
Nov. 25	23. Insect apocalypse 2
Nov. 28	24. Insects and climate change
Dec. 2	25. Insect conservation in British Columbia