

COURSE OUTLINE
Entomology – 10397 – Biology 312 – A01

Fall 2023

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Entomology – 10409 – Biology 312 – A01

Fall 2023

Instructor:

Neville Winchester

Email: ecology@uvic.ca

Office hours: by appointment

Lab Instructor:

Neville Winchester

When and where:

Lectures: Mondays and Thursdays, 10am-11:20am, Mac D207

Labs: Monday, Tuesday, and Wednesday, (2:30pm-5:20pm), Cunningham 228

Course content and information will be posted regularly on our course's Brightspace site.

Territory Acknowledgement: I recognize with respect the WSÁNEĆ (Saanich), Wyomilth (Esquimalt), and Lkwungen (Songhees) peoples on whose territories the University of Victoria stands, and whose relationships with this land remain profound today.

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 conservation. Lectures will include: an overview of insect morphology, internal anatomy, and physiology, and insect and arthropod conservation. Lectures will also include topics in insect ecology including mating systems, sociality, medical entomology, plant- insect interactions, and biodiversity issues. The laboratory portion of the course concentrates on insect identification, collecting and curating techniques. As a lab project, students will prepare an image-based insect collection.

Textbook:

There is no required text. There will be suggested readings consisting of journal articles, as well as lecture and lab material, uploaded onto Brightspace.

Copyright Statement:

All course content and materials are made available by instructors for educational purposes and for the exclusive use of students registered in their class. The material is protected under copyright law, even if not marked with a ©. **Any further use or distribution of materials to others requires the written permission of the instructor, except under fair dealing or another exception in the Copyright Act.** Violations may result in disciplinary action under the Resolution of Non-Academic Misconduct Allegations policy (AC1300).

Students should not distribute lecture notes or any exams or quizzes from the course without permission of the instructor, and to do so, through note-sharing sites or other means, violates the Policy on Academic Integrity.

BIOL 312, Fall 2023 – Grade Distribution and Important Dates:

Lecture mid-term (Mon. Oct. 23)	20%
Lecture final (Exam period, TBA)	30%
Lab test 1 (week of Oct. 23)	15%
Lab test 2 (week of Nov. 27)	25%
Lab project (due Fri. Dec. 1)	10%
Bonus: Volunteer participation in a STEM research project	2%

Note these important dates:

Last day for 100% reduction of tuition fees for standard courses – Tue. Sept. 19

Last day for adding first term courses – Fri. Sept. 22

Last day for 50% reduction of tuition fees for standard courses – Tue. Oct. 10

Last day for withdrawing from 1st term courses without penalty of failure – Tues. Oct. 31

Medical documentation for short-term absences is not required for the Fall 2023 term (approved by Senate). **Attendance is important.** Students who cannot attend due to illness are asked to notify their instructor immediately. If you miss (or know beforehand that you will be missing) a test because of illness, accident, family affliction, you are required to contact the appropriate instructor in a timely manner after the test (normally within seven calendar days).

Please note that supplemental lecture midterms are not offered in this course. If a student misses the midterm (due to an emergency or medical reason), the marks for that midterm will be distributed to the lecture final exam. If illness, accident, or family affliction causes a student to miss the final exam students are required to submit a request for academic concession, with associated documentation, as outlined in the UVic Calendar (<https://www.uvic.ca/registrar/students/appeals/acad-concession/index.php>).

Policies regarding undergraduate student academic concessions and deferrals are also detailed here: <https://www.uvic.ca/registrar/students/appeals/acad-concession/index.php>

Please be sure to consult the UVic calendar for more information on UVic policies and procedures:

<https://www.uvic.ca/calendar/future/undergrad/index.php#/home>

Important UVic links:

Academic important dates: <https://www.uvic.ca/calendar/dates/>

Academic calendar: <https://www.uvic.ca/calendar/undergrad/>

Academic concession guidelines:

<https://www.uvic.ca/calendar/undergrad/index.php#/policy/BymcP73U9>

Academic accommodations: <https://www.uvic.ca/accessible-learning/index.php> **Academic integrity:** https://www.uvic.ca/calendar/undergrad/index.php#/policy/Sk_0xsM_V

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)

An important message from your instructor on academic integrity:

As a teacher, mentor, scientist, researcher, and member of the University of Victoria community, academic integrity is of the highest importance to me.

Students are required to abide by all academic regulations set as set out in the University calendar, including standards of academic integrity. Violations of academic integrity (e.g. cheating and plagiarism) are considered serious and may result in significant penalties.

It is absolutely essential that you understand and uphold academic integrity. To this end, I ask you to please read UVic's framework on academic integrity, which you can find here:

<https://www.uvic.ca/students/academics/academic-integrity/index.php>

You can also find UVic's Policy on Academic Integrity in the UVic calendar:

https://www.uvic.ca/calendar/undergrad/index.php#/policy/Sk_0xsM_V

To help avoid plagiarism and cheating, please read the UVic Libraries' plagiarism guide:

<https://www.uvic.ca/library/research/citation/plagiarism/>

I reserve the right to use plagiarism detection software or other platforms to assess the integrity of student work.

Before handing in coursework for evaluation, you will need to complete the Integrity Matters module that is available in Brightspace:

<https://bright.uvic.ca/d2l/le/discovery/view/course/132610>

BIOI 312 Tentative Lecture Schedule – Fall 2023

Thurs. Sept. 7	1. Introduction: The importance, diversity, and conservation of insects
Mon. Sept. 11	2. The importance of insects, continued
Thurs. Sept. 14	3. Biodiversity and conservation of insects
Mon. Sept. 18	4. Morphology, Metamorphosis, flight and classification
Thurs. Sept. 21	5. Responses to abiotic conditions, dispersal
Mon. Sept. 25	6. Insects and metapopulation biology
Thurs. Sept. 28	7. Insect Biodiversity of the Nearctic Region
Mon. Oct. 2	No lecture - National Day for Truth and Reconciliation
Thurs. Oct. 5	8. Invasive species and conservation consequences
Mon. Oct. 9	No lecture - Thanksgiving Holiday
Thurs. Oct.12	9. Insects and forests part 1
Mon. Oct.16	10. Insects and forests part 2
Thurs. Oct.19	11. Canopy entomology
Mon. Oct. 23	12. Lecture midterm
Thurs. Oct. 26	13. Insects in an agriculture landscape
Mon. Oct. 30	14. Plant-Insect Interactions – Herbivory
Thurs. Nov. 2	15. Plant-Insect Interactions – Pollination
Mon. Nov. 6	16. Insects as Regulators of Ecosystem Processes
Thurs. Nov. 9	17. Predators and Parasitoids
Mon. Nov. 13	Reading Break – No Lecture
Thurs. Nov. 16	18. Insect apocalypse 1
Mon. Nov. 20	19. Insect apocalypse 2
Thurs. Nov. 23	20. Insects and climate change
Mon. Nov. 27	21. Insect conservation in British Columbia
Thurs. Nov. 30	22. Insect Sociality

BIOLOGY 312 LAB SCHEDULE, FALL 2023



Dr. Neville Winchester: ecology@uvic.ca

LAB#	WEEK OF	TOPIC
1	Sept. 4	No labs
2	Sept. 11	Lab overview and introduction - Insects and Biodiversity – Ordinal identification
3	Sept. 18	Insect External Anatomy
4	Sept. 25	Aquatic Insect Biodiversity – sampling and curation
	Oct. 2	National Day for T&R - NO FORMAL LABS
	Oct. 9	Thanksgiving – NO FORMAL LABS
5	Oct. 16	Lepidoptera Biodiversity – sampling and curation
6	Oct. 23	Test #1 – Identification
7	Oct. 30	Diptera Biodiversity – sampling and curation
8	Nov. 6	Coleoptera Biodiversity -sampling and curation
	Nov. 13	Reading Break – NO FORMAL LABS
9	Nov. 20	Hymenoptera Biodiversity – sampling and curation
10	Nov. 27	Test #2 – Identification, biodiversity modules

MARKS

Test #1	15%
Test #2	25%
Insect Project	10%
Total	50%

NOTE:

1. Each lab includes biodiversity modules that are meant to introduce you to the diverse field of entomology. All lab material will be posted on your Brightspace site for the Fall 2023 term. There is nothing to purchase!
2. Format and details of the lab tests will be discussed by Neville. The final lab test (test #2) is not cumulative except for Order and Hemiptera family identification.
3. Project due date: Dec. 1, 4:30 – Submit on your Biology 312 BRS page - Details of the insect project will be discussed during the term.

Class recording: Due to the evolving Covid situation, please be aware that sessions in this course **may be** recorded – at present I do not anticipate recording lectures. If you have other questions or concerns regarding class recording and privacy please contact privacyinfo@uvic.ca

Online conduct: The University of Victoria is committed to promoting critical academic discourse while providing a respectful and supportive learning environment. All members of the university community have the right to this experience and the responsibility to help create such an environment. The University will not tolerate racism, sexualized violence, or any form of discrimination, bullying or harassment.

Please be advised that, by logging into UVic's learning systems or interacting with online resources, and course-related communication platforms, you are engaging in a university activity.

All interactions within this environment are subject to the university expectations and policies. Any concerns about student conduct may be reviewed and responded to in accordance with the appropriate university policy.

To report concerns about online student conduct: onlineconduct@uvic.ca

Mental health: A note to remind you to take care of yourself. Diminished mental health can interfere with optimal academic performance. 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. Here are some UVic web sites with links to many useful resources that are available to you:

<https://www.uvic.ca/student-wellness/index.php>

<https://onlineacademiccommunity.uvic.ca/LearnAnywhere/>

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.