

COURSE OUTLINE
Entomology – 10401 – Biology 312 – A01

Fall 2020

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Instructor:

Steve Perlman

Email: stevep@uvic.ca

Office hours: by appointment

Lab Instructor:

Neville Winchester

winchest@uvic.ca

by appointment

When and where:

Lectures: Mondays and Thursdays, 10am-11:20am via Zoom (find link on Brightspace page)

Labs: Monday (2:30pm-5:20pm) or Tuesday (2:30pm-5:20pm) via Blackboard

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 mating systems, sociality, medical entomology, plant-insect interactions, and conservation. The laboratory portion of the course concentrates on insect identification, and 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 required readings consisting of journal articles (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 may 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 2020 – Grade Distribution and Important Dates:

Lecture quiz 1 (Thu. Oct. 15 ^a)	7.5%
Lecture quiz 2 (Thu. Dec 3 ^a)	7.5%
Written assignment – paper critique (due Fri. Dec 4)	10%
Group Presentation	15%
Written summary of class reading (1)	5%
Video response to readings & discussions (4)	8%
Video feedback on group presentation (2, at least 1 must be submitted by Nov 1)	4%
Participation exercise 1 (GenBank, alignment, & phylogeny, due Oct 9)	3%
Participation exercise 2 (horizontal gene transfer, due Oct 9)	2%
Participation exercise 3 (biological control, due Nov 18)	3%
Lab test 1 (week of Oct. 19)	10%
Lab test 2 (week of Nov. 23)	15%
Lab project (due Tue. Dec 1)	10%

^aQuizzes will be available online for 24 hours, and you will have 1 hour to complete them.

Penalty for late submissions: 5% per day.

Note these important dates:

Last day for 100% reduction of tuition fees for standard courses – Tue. Sep. 22

Last day for adding first term courses – Fri. Sep 25

Last day for 50% reduction of tuition fees for standard courses – Tue. Oct. 13

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

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)

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>

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.

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.

BIOL 312 Tentative Lecture Schedule – Fall 2020:

Thurs. Sept. 10	1. Introduction and Importance of Insects
Mon. Sept. 14	2. Morphology
Thurs. Sept. 17	3. Introduction to Phylogenetics
Mon. Sept. 21	4. Phylogenetics and Ecdysozoa
Thurs. Sept. 24	5. Arthropods to Hexapods
Mon. Sep. 28	6. Pterygota and flight, Neoptera
Thurs. Oct. 1	7. Neoptera continued
Mon. Oct. 5	8. Holometabola, Metamorphosis & meet with a Guest Entomologist
Thurs. Oct. 8	9. Holometabola continued
Mon. Oct. 12	Thanksgiving Holiday – No Class
Thurs. Oct. 15	10. Internal Anatomy and Physiology
Mon. Oct. 19	11. Nervous System and Sensory Biology
Thurs. Oct. 22	12. Development, Life Histories
Mon. Oct. 26	13. Sexual Selection, Mating Systems
Thurs. Oct. 29	14. Insect Sociality
Mon. Nov. 2	15. Plant-Insect Interactions – Herbivory
Thurs. Nov. 5	16. Plant-Insect Interactions – Pollination
Mon. Nov. 9	Reading Break - No Class
Thurs. Nov. 12	17. Insect Conservation
Mon. Nov. 16	18. Parasitoids, Predators, Parasites
Thurs. Nov. 19	19. Biological Control & meet with a Guest Entomologist
Mon. Nov. 23	20. Insect Symbionts
Thurs. Nov. 26	21. Medical Entomology
Mon. Nov. 30	22. Meet with a Guest Entomologist
Thurs. Dec. 3	23. Pests and Transgenics

BIOLOGY 312 LAB SCHEDULE, FALL 2020



Dr. Neville Winchester: winchest@uvic.ca

LAB#	WEEK OF	TOPIC
1	Sept. 7	No labs
2	Sept. 14	Insects and Biodiversity – Introduction
3	Sept. 21	Insect External Anatomy
4	Sept. 28	Aquatic Insect Biodiversity – sampling and curation
5	Oct. 5	Lepidoptera Biodiversity – sampling and curation
6	Oct. 12	Thanksgiving – NO FORMAL LABS
7	Oct. 19	Test #1 – Identification, biodiversity modules
8	Oct. 26	Diptera Biodiversity – sampling and curation
9	Nov. 2	Coleoptera Biodiversity -sampling and curation
10	Nov. 9	Reading Break – NO FORMAL LABS
11	Nov. 16	Hymenoptera Biodiversity – sampling and curation
12	Nov. 23	Test #2 – Identification, biodiversity modules

MARKS

Test #1	10%
Test #2	15%
Insect Project	10%
Total	35%

NOTE:

1. Each lab includes biodiversity modules that are meant to introduce you to the diverse field of entomology. All labs will be virtual for the Fall 2020 term.
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 identification.
3. Details of the insect project will be discussed during the term and is due in lab on Tuesday December 1st (submitted by email) before 4:30pm.

Student resources and support:

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. Here are some resources that are available to you:

- **UVic Support Connect** - *In addition to providing both face to face and online mental health resources through our new Student Wellness Centre (opened in July), a new 24x7 phone & online student mental health resource and support program is now available for all UVic students, no matter where they are located, at any time. This program is called UVic Support Connect.*

<https://www.uvic.ca/services/counselling/resources/supportconnect/>

- **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>

- **New Student Connect Program** - *As a critical tool to build student communities and meaningful engagement outside of the learning setting in a predominately online environment, all **new to UVic** students (undergraduate & graduate) will have opportunities to participate in New Student Connect.*

<https://www.uvic.ca/services/studentlife/initiatives/new-student-connect/index.php>

- **Technology support** - *for a useful map of student supports, go to page 3 of*

<https://onlineacademiccommunity.uvic.ca/TeachAnywhere/wp-content/uploads/sites/4913/2020/08/LTSI-Fall2020-Resource-Map.pdf>

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.