COURSE OUTLINE

Molecular Evolution – 20433 – Biology 435 – A01 Second Term, Jan-Apr 2022

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Molecular Evolution – 20433 – Biology 435 – A01

Instructor:

Steve Perlman

Email: stevep@uvic.ca

Office hours: by appointment

When and where:

Lectures: Mondays and Thursdays, 11:30 am-12:50 pm

Due to current Covid-19 conditions and UVic guidelines, from January 10th and until at least January 24th, lectures will be online and synchronous, via Zoom (find link on Brightspace page).

Should in-person instruction resume, lectures will take place in Cunningham 146.

Territory Acknowledgement: We acknowledge and respect the ləkwəŋən peoples on whose traditional territory the university stands, and the Songhees, Esquimalt and WSÁNEĆ peoples whose historical relationships with the land continue to this day.

Course description:

Molecular evolution is an exciting and rapidly developing field of study that is especially concerned with a) understanding how and why DNA sequences and genomes change, and b) reconstructing the evolutionary history of genes, genomes, and organisms. This course will cover a broad array of current topics in molecular evolution, spanning population genetics, phylogenetics, and genomics. The first portion of the course will provide an introduction to molecular population genetics and phylogenetics. The second portion will survey current topics and recent primary literature. There will be one mid-term, one final exam, one student presentation, one paper critique, two short quizzes, and computer exercises using population genetic, phylogenetic, and bioinformatics software. Details on the assignments will be provided in the lectures.

Textbook:

There is no required text. There may 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 435 Spring 2022, Grade Distribution and Important Dates:

Midterm test (Mon. Feb. 14)	20%
Final (exam period, TBA)	25%
Check-in quiz (week of Jan. 31)	2.5%
Check-in quiz (week of Mar. 14)	2.5%
Group Presentation	25%
Video feedback of 1 group presentation	3%
Paper critique (Fri. Apr. 8)	10%
Computer exercises (due Feb. 7, Feb. 28, Mar. 14)	12%

Penalty for late submissions: 5% per day.

Note these important dates:

Last day for 100% reduction of tuition fees for standard courses – Sun. Jan. 23

Last day for adding second term courses – Wed. Jan 26

Last day for 50% reduction of tuition fees for standard courses – Sun. Feb. 13

Last day for withdrawing from 2nd term courses without penalty of failure – Mon. Feb. 28 Reading Break – Mon. Feb. 21 until Fri. Feb. 25

Medical documentation for short-term absences is not required for the Spring 2022 term (approved by Senate). Attendance is important. Students who cannot attend due to illness are asked to notify their instructors 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).

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

Students are reminded that final exams in the Faculty of Science run from April 11 through April 29. Final exams will not be rescheduled for students who make travel plans that conflict with the officially scheduled final exam for this course.

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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)
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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.

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.

Please see read UVic's Student code of conduct and standards for professional behaviour:

https://www.uvic.ca/services/advising/advice-support/academic-units/student-code-of-conduct/index.php

BIOL 435 Tentative Lecture Schedule

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Class recording: Due to the evolving Covid situation, please be aware that sessions in this course may be recorded to allow students who are not able to attend to watch later. The recording will be posted in Brightspace. Students who have privacy concerns can contact me and will have the option to limit their personal information shared in the recording. 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.