

MICROBIOLOGY 402 - VIROLOGY
COURSE OUTLINE – Spring 2021 CRN 22142

Instructor: Dr. Chris Upton

Contact: cupton@uvic.ca

Office Hours: Email me to arrange zoom meeting

Textbook: None

Web site: brightspaces.uvic.ca

TOPICS

Introduction to viruses:	History, characteristics, replication
Virus particles:	Structure
Virus replication:	Genome replication strategies
Consequences of virus infection:	Virus - host cell interactions
Viruses and the immune system:	Pathogenicity, virulence, disease, host defenses and vaccines
Viruses with +ve sense RNA genomes: ..	Polio, TMV, MS2, Rubella virus, coronaviruses
Viruses with -ve ssRNA genomes:	Rabies virus, flu virus
Viruses with dsRNA genomes:	Reoviruses, rotavirus
Retroviruses:	Oncogenes, HIV and AIDS
Viruses with small DNA genomes:	Parvoviruses, papillomaviruses
Viruses with large DNA genomes:	Adenoviruses, poxviruses, herpesviruses

The classroom periods are 80 minutes in duration. To allow for interactive learning, it is expected that discussion of lecture material will ensue in each session. This will be encouraged and the lectures constructed in a way that facilitates open dialog.

Course projects will require students to research a topic and give a short oral presentation or prepare a set of detailed notes on an assigned lecture.

Course assignments will require students to listen to podcasts in preparation for class discussion.

Although brief lecture notes will be provided, attendance of lectures is expected.

GRADING SCHEME

Techniques to be used in the assessment of students' performance in the course:

Marking of MCQs, short or long answer exam questions by the instructor for the relevant material and assignment of a numerical mark to each question on the exam, grading of oral or on-line presentations.

Evaluation of exams, presentation, class participation and weighting:

Midterm exam:	To be arranged 1 st week of class	20 %
Final Exam:	All the material covered in the course	50 %
Assignments		15 %
Presentations		15 %

UVic Grading Scheme

A⁺	90 - 100	B⁺	77 - 79	C⁺	65 - 69	F	< 50
A	85 - 89	B	73 - 76	C	60 - 64	N **	< 50
A⁻	80 - 84	B⁻	70 - 72	D	50 - 59		

** N grades

Students who have completed the following elements will be considered to have completed the course and will be assigned a final grade:

- *midterm, final exam and presentation/project*

Failure to complete one or more of these elements will result in a grade of "N" regardless of the cumulative percentage on other elements of the course. An N is a failing grade, and it factors into a student's GPA as 0. The maximum percentage that can accompany an N on a student's transcript is 49.

DEPARTMENT INFORMATION AND POLICIES

1. The Department of Biochemistry and Microbiology upholds and enforces the University's policies on academic integrity. These policies are described in the current University Calendar. All students are advised to read this section.
2. Cell phones, computers, and other electronic devices must be turned off at all times during live class sessions unless being used for the purpose of connecting and engaging with the class.
3. No recordings of live lectures are permitted without permission of the instructor. Many online courses will be recorded by the instructor for accessibility for students unable to attend. If you do not wish to be recorded, contact your instructor to determine if alternative arrangements can be made.
4. Course materials, such as notes, problem sheets, quizzes, examinations, example sheets, or review sheets, may not be redistributed without the explicit written permission of the instructor.
5. Students are expected to be available for all exams. Instructors may grant deferrals for midterm examinations for illness, accident, or family affliction. Although students do not require documentation, students must contact their instructor and BCMB office (biocmicr@uvic.ca) with the reason for their absence within 48 hours after the midterm exam. The Department will keep a record

of the absences. It is the responsibility of the student to ensure all required components are complete, and to arrange deferred exams/assignments with the instructor, which normally should occur within one week of the original exam date.

6. The Department of Biochemistry and Microbiology considers it a breach of academic integrity for a student taking a deferred examination to discuss the exam with classmates. Similarly, students who reveal the contents of an examination to students taking an examination are considered to be in violation of the University of Victoria policy on academic integrity (see current University Calendar). Students must abide by UVic academic regulations and observe standards of scholarly integrity (no plagiarism or cheating). Online exams must be taken individually and not with a friend, classmate, or group, nor can you access notes, course materials, the internet, or other resources without the permission of the instructor. You are prohibited from sharing any information about the exam with others. Use of unauthorized electronic devices and accessing the internet and class material during exams is prohibited unless permission is granted by the instructor. Instructors may use Browser Lockdown Software to block access during classes and exams.
7. Deferral of a final exam must be requested with an Academic Concession form and submitted directly to Undergraduate Records. Deferred final exams for fall term courses will be arranged by the instructor. Deferred final exams for spring term courses will be arranged through Undergraduate Records and must be written before the end of the summer term as stipulated in the University Calendar.
8. Requests for review/remark of a midterm exam must be made within one week of the exam being returned.
9. The instructor reserves the right to use plagiarism detection software or other platforms to assess the integrity of student work.
10. Supplemental exams or assignments will not be offered to students wishing to upgrade their final mark.
11. Anonymous participation in online classes is not permitted without permission of the instructor.

Important note about COVID-related stress

The current pandemic is placing added stressors- financial, mental, and physical- on everyone. Your wellbeing is of foremost importance. If you are experiencing difficulties coping, the University has resources to help. Reach out to Counselling Services, the Centre for Academic Communication, or Learning Assistance Program for assistance.

Centre for Accessible Learning

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, approach the Centre for Accessible Learning (CAL) as soon as possible in order to assess your specific needs.

<https://www.uvic.ca/services/cal/index.php>

Course Experience Survey (CES)

We 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 your [CES dashboard](#). You will need to use your UVic NetLink ID to access the survey, which can be done on your laptop, tablet or mobile device. I will remind you nearer the time but please be thinking about this important activity.