

Microbiology 408: Microbial Pathogenesis Course Outline – 2020

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Office Hours: TBA

Location: Human and Social Development A240
Mon, Thurs 1:00-2:20

Course Website: Material posted on CourseSpaces

Textbook: No textbook, all necessary material will be provided in the lectures

TENTATIVE LECTURE SCHEDULE

Month	Day	Tentative Topics	Exam
January	6	Introduction	
	9, 13, 16, 20, 23, 27	Host-pathogen interactions <ul style="list-style-type: none"> • Host defence mechanisms - bacterial evasion strategies • Microbial colonization and adherence strategies • Microbial invasion strategies Microbiome <ul style="list-style-type: none"> • Interaction with host/pathogens • Role in protection from disease and susceptibility to disease 	
January 30		In Class group assignment – attendance is mandatory Problem-based learning module; host-pathogen interactions	
February	3		MIDTERM #1
February	6,10, 13, 24	Mechanisms of bacterial pathogenesis <ul style="list-style-type: none"> • Bacterial secretion systems • Apoptosis/necroptosis • Toxin production • Biofilms & Quorum Sensing • Antigenic variation & Phase Variation 	
February	27	In Class group assignment – attendance is mandatory Problem-based learning module; intracellular pathogens	

March	2	Intracellular Pathogens	
March	5	Intracellular Pathogens	
March	9	Extracellular Pathogens	
March	12	Extracellular Pathogens	
March	16		MIDTERM #2
March	19	Antimicrobial Resistance	
March	23, 26	Treatment strategies -Vaccine Development & Implementation	
March	30	-Novel Antimicrobial Peptides	
April	2		MIDTERM #3

Grading Scheme

Marking of short answer exam questions on material presented in the course and assignment of a numerical mark to each question. Evaluation of performance on the in-class projects.

Evaluation of the Exams/Projects and Weighting

Midterm #1	35% of final grade
Midterm #2	40% of final grade
Midterm #3	15% of final grade
Projects	In-Class Problem-Based Learning Modules in Infectious Diseases, 10% of final grade

NO FINAL

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:
3 midterms, 2 in-class projects.

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 unless being used for a purpose relevant to the class. Students having a cell phone, tablet, or computer on their person during an exam will be assumed to have it for the purpose of cheating.
3. Any recordings of lectures may only be performed with written permission of the instructor, and are for personal use only. The instructor retains copyright to such recordings and all lecture materials provided for the class (electronic and otherwise); these materials must not be shared or reposted on the Internet.
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 present for the midterm and final exams. Instructors may grant deferrals for midterm examinations for illness, accident, or family affliction, and students must provide appropriate documentation 48 hours after the midterm exam. 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 a deferred examination are considered to be in violation of the University of Victoria policy on academic integrity (see current University Calendar). 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.
6. Multiple choice scan sheets for machine scoring (bubble sheets) are considered the authentic exam answer paper and will be retained by the department for 1 year.
7. Professors may refuse to review/remark exams not written in indelible ink. In addition, requests for review/remark of a midterm exam must be made within one week of the exam being returned. Students are expected to promptly pick up midterm exams after marking has been completed, either in class or from the instructor.
8. Examination papers that have pages removed, or are mutilated will not be marked.
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.

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.