

MICR200B
Introductory Microbiology II
CRN 22130
Winter 2021

Class time/location: Tues, Wed, Fri, 11:30 – 12:20, Online via Zoom (see Brightspace for Zoom link)

Instructor: Dr. Doug Briant
email: dbriant@uvic.ca

Office hours: Mondays, 9am – 11am via Zoom (see Brightspace for Zoom link)

Textbook: Brock's Biology of Microorganisms (16th Edition), M. T. Madigan, K. S. Bender, D. H. Buckley, W. M. Sattley and D. A. Stahl. 2021, Pearson Education Inc

Brightspace site: a Brightspace site will be maintained for this course. Some, but not all, lecture notes will be made available. It contains the following sections:

General Information: course outline, discussion forum, contact information, zoom links etc.

Friendly Scientist Information: information about the Friendly Scientist social hours, including Zoom links and schedules.

Academic Integrity Quiz: you must score 100% on this quiz before you will be allowed to write any Participation Quizzes, Midterms or the Final Exam.

Lecture notes: here you will find the pdf notes.

Lectures: recorded Zoom lectures.

Participation Quizzes: six participation quizzes.

Midterm / Final exam material: reviews, old exams and the actual exams will be here.

Laboratory: Laboratory manuals are available to order and pick-up or ship from the bookstore.

Note: Laboratory Live Zoom Sessions start during the week of January 11th. See the schedule in the Lab manual or the Lab Brightspace page for more information. Attendance in the Live Zoom Session is mandatory, and a passing mark in the laboratory portion is required in order to obtain credit for the course. Additionally, students that have missed more than two Zoom sessions will not be able to complete the course and will receive a grade of "N".

Learning Objectives:

The genetics of microbes will be introduced. Students will recognize the importance that genetic processes play in both health and industry.

Interactions between microbes and the environment will be described. Students will be expected to apply their knowledge of genetics, as well as biochemical pathways (from MICR200A) to analyze how microbes not only survive in a particular environment, but how they actually shape their physical environment. Students will evaluate how environmental manipulation by microbes impacts ecosystems. This theme will be carried into humans as a microbial environment. Students will recognition both beneficial and harmful (pathogenic) interactions between human hosts and microbes. Strategies to protect humans from disease will be described. Students will be expected to apply different strategies to protect and promote human health.

Tentative Class Schedule:

<i>topic</i>	<i>dates</i>	<i>text (subject to revision)</i>
1) <i>Scientific Method</i>		NA
2) <i>Genetics and Molecular Biology</i>		6, 7
3) <i>Organisms and Phylogeny</i>		14 – 17
4) <i>Environment</i>		18 – 21
5) <i>Microbial Interactions</i>		22
6) <i>Immunology</i>		24 – 27
7) <i>Bacteria and Human Disease</i>		23, 28 – 33

Grading:

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:

**** both midterms and the final exam must be completed in order to complete the course ****

**** students must pass both the lab and lecture portion to complete the course ****

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

Important dates and evaluation:

Date	EVALUATION	Notes
Note: the laboratory component of this course is worth 40% of the overall grade		
week of Friday, January 22	Participation Quiz 1, 0.5%	<i>open from Monday to Friday via Brightspace, must be completed by 4pm on Friday.</i> Must get at least one question correct to receive participation grade
week of Friday, January 29	Participation Quiz 2, 0.5%	<i>open from Monday to Friday via Brightspace, must be completed by 4pm on Friday.</i> Must get at least one question correct to receive participation grade
Friday, February 05	19% midterm 1 exam	<i>online via Brightspace. Exams are open from 8:30am – 8:30pm. Once you start you will have two hours to complete the exam.</i>
February 15 – 19	Reading Break	<i>there are no classes this week!</i>
week of Friday, February 26	Participation Quiz 3, 0.5%	<i>open from Monday to Friday via Brightspace, must be completed by 4pm on Friday.</i> Must get at least one question correct to receive participation grade
week of Friday, March 05	Participation Quiz 4, 0.5%	<i>open from Monday to Friday via Brightspace, must be completed by 4pm on Friday.</i> Must get at least one question correct to receive participation grade
Friday, March 12	19% midterm 2 exam	<i>online via Brightspace. Exams are open from 8:30am – 8:30pm. Once you start you will have two hours to complete the exam.</i>
week of Friday, March 26	Participation Quiz 5, 0.5%	<i>open from Monday to Friday via Brightspace, must be completed by 4pm on Friday.</i> Must get at least one question correct to receive participation grade
week of Friday, April 09	Participation Quiz 6, 0.5%	<i>open from Monday to Friday via Brightspace, must be completed by 4pm on Friday.</i> Must get at least one question correct to receive participation grade
TBD	19% final exam	<i>2 hours, set by registrar. Online via Brightspace, but must complete the exam during the scheduled exam time.</i>

- Students are responsible for ensuring that they are properly registered in the course.

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 or 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 us regarding the course and our 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. We will remind you nearer the time but please be thinking about this important activity.