MICROBIOLOGY 202 (2020W)
INTRODUCTORY MEDICAL MICROBIOLOGY AND IMMUNOLOGY.

GENERAL INFORMATION

During this pandemic, the shift to online learning has greatly altered teaching and studying at UBC, including changes to health and safety considerations. Keep in mind that some UBC courses might cover topics that are censored or considered illegal by non-Canadian governments. This may include, but is not limited to, human rights, representative government, defamation, obscenity, gender or sexuality, and historical or current geopolitical controversies. If you are a student living abroad, you will be subject to the laws of your local jurisdiction, and your local authorities might limit your access to course material or take punitive action against you. UBC is strongly committed to academic freedom, but has no control over foreign authorities (please visit http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,33,86,0 for an articulation of the values of the University conveyed in the Senate Statement on Academic Freedom). Thus, we recognize that students will have legitimate reason to exercise caution in studying certain subjects. If you have concerns regarding your personal situation, consider postponing taking a course with manifest risks, until you are back on campus or reach out to your academic advisor to find substitute courses. For further information and support, please visit: http://academic.ubc.ca/support-resources/freedom-expression.

Calendar Description:

To introduce students to the major concepts and current ideas in (1) Immunology, (2) Pathogenesis of Bacterial Diseases and (3) Virology. Prerequisite: BIOL112, BIOL200, BMEG245, MICB201, PHAR 201 or SCIENCE 1.

Instructors:

Dr. L Osborne, lsoborne@mail.ubc.ca
Dr. E. Gaynor, egaynor@mail.ubc.ca
Dr. T. Kion, tkion@mail.ubc.ca (Course Coordinator)

Teaching Assistants:

Ginny Pichler
Daniela Morales Duran

Instructor and TA virtual office hour times to be announced on Canvas. All meetings will be online.

If emailing instructors, please remember to put MICB 202 in the subject heading and include your student number.
**Course Reading Package:**

The MICB202 Course Reading Package has been moved online to Canvas. Each page in the immunology and virology segments have images, links to animations/videos, review questions and a self-assessment quiz. Students can copy and paste the notes into their own documents and annotate them as appropriate.

All of the material in the MICB202 Course Reading Package is required reading and can be the subject of exam questions, even if not covered during the lecture periods.

**Copyright:**

All materials of this course (course handouts, lecture slides, assessments, course readings, etc.) are the intellectual property of the Course Instructor or licensed to be used in this course by the copyright owner. Redistribution of these materials by any means without permission of the copyright holder(s) constitutes a breach of copyright and may lead to academic discipline.

**Course Web Site:**

The MICB202 Canvas Site will be used as an important learning resource. Learning objectives, lecture materials, review questions, practice exams and links to site containing relevant animations are posted. Students can access this site at [canvas.ubc.ca](http://canvas.ubc.ca) using their Campus Wide Login. Material posted in instructors’ slides is also considered testable. Further clarification will be provided in lectures.

**Learning objectives:**

At the end of the course, the students will have a general understanding of the different types of disease-causing pathogens and how they try to evade the body's immune system. The students will also have a basic understanding of the different ways in which the immune system fights microbial disease. They will also understand the basic concepts underlying many important health issues including AIDS, vaccines and the proper use of antibiotics.

MICB202 strives to reinforce and illustrate concepts in cell biology, molecular biology and biochemistry that students have been exposed to in BIOL200 and BIOL201. It also prepares students for more advanced courses in Microbiology, Immunology, Cell Biology and Biochemistry.

The course emphasizes a conceptual understanding of the cells and molecules involved in these processes and also seeks to connect these to real life examples that the students are familiar with. Where appropriate, quantitative skills are emphasized.

**Course schedule:**

Sept. 9 – Oct. 5 – Immunology – Dr. Osborne
Oct. 7 – Nov. 4 – Virology – Dr. Kion
Nov. 6 – Dec. 4 – Bacterial Diseases – Dr. Gaynor
Oct. 12 and Nov. 11 – no class – Thanksgiving Holiday and Remembrance Day respectively
iClicker Cloud

UBC has provided a subscription to iClicker Cloud for all students. iClicker Cloud will work similar to the iClicker system that you have used in the classrooms, but you’ll use your phone or tablet to answer questions. A student guide to iClicker Cloud can be found here https://lthub.ubc.ca/guides/iclicker-cloud-student-guide/ (this link is also on Canvas).

Grade Distribution:

Immunology Assignments (can include quizzes, in class activities): 25%
Virology Assignments (can include quizzes, in class activities): 25%
Bacterial Diseases Assignments (can include quizzes, in class activities): 25%
Comprehensive Final Exam: 25%

- The grading scheme is final and will NOT be changed. MICB202 grades are NOT scaled.

Assignments:

Throughout the term, you may be required to complete several assignments that will contribute to your course grade. The assignments may consist of a variety of questions including: fill-in-the-blanks, multiple-choice, short answer and data analysis questions. These assignments will be set up on Canvas using the quiz tool. Assignments grades will be released once the assignment due date has passed and the assignment has been graded by the TAs and/or the instructors.

The Immunology segment will have 5 assignments – the grades of the best 4 completed assignments will be used in the calculation of the Immunology Assignments grade.

The Virology segment will have 5 assignments – the grades of the best 4 completed assignments will be used in the calculation of the Virology Assignments grade.

The Bacterial Diseases segment will have 5 assignments – all assignments will be used in the calculation of the Bacterial Diseases Assignments grade.

Final Exam:

Final Examination: Instructors cannot rearrange the date and time for students to write the final examination because of employment or travel conflicts etc. Students that are absent during the final exam must report to the Dean's Office as soon as possible and request a form for a Deferred Exam. The Dean's office will require valid documentation to explain your absence from an exam.

The exam period is set for Monday Dec. 7th – Tuesday Dec. 22nd, 2019 inclusive.

Missed Final Exams: Students that are absent during the final exam must report to the Dean's Office as soon as possible and request a form for a Deferred Exams. The Dean's office will require valid documentation to explain your absence from an exam. Deferred Exams are scheduled by the Enrolment Services and are usually held in late July/early August.
Note that instructors are not permitted to rearrange the times of final exams for students other than in a case of exam hardship. An exam hardship is defined as 3 exams within a 24-hour period. For example, Student “A” has an exam at 8:30 am, 12:00 noon and 7 pm; this is an exam hardship and the 2nd exam would be rescheduled (probably to the following day). An example of what is NOT an exam hardship: Student “B” has exams scheduled at 8 am, 12:00 noon, then 8 am the following day. The third exam is in the next 24-hour period.

**Final Examination Questions Format:**

- Exam questions will be multiple-choice format or short answer format. The final exam is open book. The exam will be administered online.
- The final exam is comprehensive.
- The subject of at least 85% of the exam questions will be drawn from material in the Canvas pages. 15% of the exam questions may be based on material covered by your instructor in class (for example, a disease outbreak not included in the Canvas pages).
- Some parts of the Canvas pages may not be explicitly dealt with during class time; nevertheless, students are still responsible for this material for exam purposes.
- Many exam questions will involve problem solving. You will need to integrate multiple concepts from different portions of a given segment (e.g., immunology).
- Students are required to produce one piece of photo-identification during the exams. UBC Student ID is preferable.
- The exams may require the use of Proctorio, Collaborate Ultra or Zoom (or similar technology) for invigilation purposes. Therefore, students are required to have a computer with stable Internet access, a working camera and microphone.

**Student Responsibilities:**

Students are responsible for:

- Confirming their registration in the course.
- Maintaining an active email address that is registered with the University for the purpose of communicating with the instructors, the Dean of Science, and Enrolment Services.
- Consulting the MICB202 Canvas site on a regular basis for announcements and other posted information.
- Classroom discussion should be civilized and respectful to everyone and relevant to the topic we are discussing. Any discussion from class that continues on Canvas or Piazza should adhere to these same rules and expectations.

**Tutoring:**

Many private companies will offer tutoring services to students enrolled in courses at UBC, often for an hourly fee. The instructors of MICB202 do not support or endorse any of these services. The employees of these companies have had no contact or discussions with the instructors and are not provided with any of the course materials. Students are directed to use caution if hiring any of these...
companies. Appeals that the course grade was lower than expected because of incorrect information provided by these companies will not be accepted.

Reach Out for Success:

University students often encounter setbacks from time to time that can impact academic performance. Discuss your situation with your instructor or an academic advisor. Learn about how you can plan for success at: www.students.ubc.ca.

For help addressing mental or physical health concerns, including seeing a UBC counsellor or doctor, visit: www.students.ubc.ca/livewelllearnwell.

For tips to address the transition to online learning, visit: https://keeplearning.ubc.ca.

Supporting Learning with Academic Integrity (adapted from Dr. C. Rawn, Dept. of Psychology, UBC).

In the academic community—a community of which you are now a part—we deal in ideas. That’s our currency, our way of advancing knowledge. By representing our own and others’ contributions in an honest way, we are (1) respecting the rules of this academic community, and (2) showcasing how our own novel ideas are distinct from but relate to their ideas. This gives us a formal way to indicate where our ideas end and where others’ begin.

But academic integrity goes well beyond formal citation. Welcome to the academic community. You are expected to act honestly and ethically in all your academic activities, just like the rest of us.

Make sure you understand UBC’s definitions of academic misconduct, consequences, and expectation that students must clarify how academic honesty applies for a given assignment. Please ask if you’re not sure. (While you’re checking out the calendar, you might want to check out the “Student Declaration and Responsibility” statement you agreed to when you registered.)

What does academic integrity look like in MICB 202?

At any time: if you are unsure if a certain type of assistance is authorized, please ask. If you have a need that is unmet by existing course materials, course structure, and/or our learning community members, please ask.

DO your own work. All individual work that you submit should be completed by you and submitted by you. All assessments, large and small, are designed to help you learn and understand the concepts in the course and apply your knowledge to solve problems.

- It is unacceptable to buy/sell/swap/share assignment questions or answers on any platform.
- It is unacceptable to misrepresent your identity by using someone else to complete any portion of a course (e.g., comment on a discussion board, complete a quiz question).
- It is unacceptable to help someone else cheat.
AVOID collusion. Collusion is a form of academic integrity violation that involves working too closely together without authorization, such that the resulting submitted work gains unfair advantage over other students because it is a measurement of the group/pair/others’ understanding rather than the individual understanding. For example, collusion on an open book assignment or test includes working together to write answers or answering someone else’s question in any forum. Assignments that are explicitly the product of group collaboration have authorization, so don’t count as collusion. Preparing to individually complete an assignment or test by studying together (e.g., discussing concepts, quizzing each other and giving feedback on each others’ answers) doesn’t count as collusion. In this course, your assignments and tests must be individually written.

Can I work with a classmate to co-create study notes? Yes, you can create your own original collaborative notes, but it is unacceptable to post them on file-sharing websites (e.g., CourseHero, GoogleDocs). I recommend using the features in Canvas groups to ensure your work remains protected. Send me a message using Canvas Inbox, and I’ll create a Group just for you. That will allow you to upload and share notes, and to work collaboratively on Pages (see this site for an introduction to these features). I also recommend starting your collaboration with a written agreement that addresses integrity issues, such as these: Who else can see/use/contribute to these notes? How will we ensure we are not violating copyright?

DO NOT share materials provided for you to use in this course. We are working hard to provide all the materials you need to succeed in this course. In return, please respect our work. All assignment instructions, quiz questions and answers, discussion questions, announcements, PowerPoint slides, audio/video recordings, Canvas modules, and any other materials provided to you by the Teaching Team are for use in this course by students currently enrolled in MICB 202 section 101.

- It is unacceptable to share any of these materials beyond our course, including by posting on file-sharing websites (e.g., CourseHero, GoogleDocs).

- It is unacceptable to copy and paste sentences from the textbook (e.g., definitions) into for-profit software (e.g., Quizlet) for use in studying. Respect the Teaching Team and textbook authors’ intellectual property, and follow copyright law.