



**University of Ottawa
Faculty of Health Sciences
Interdisciplinary School of Health Sciences**

**Course Syllabus
Winter 2017**

Part 1: Course Information

Course Identification

Title: Microbiology and Immunology

Prefix/Section: HSS1100AW

Credits: 3

Begins/Ends: January 9, 2017 / April 8, 2017

Meeting Day/Time: Tuesdays, 5:30 pm – 8:30 pm

Last Day to Withdraw: Check University calendar

<http://www.uottawa.ca/important-academic-dates-and-deadlines/>

Delivery Type: Classroom

Class Location: WC144 Woodroffe Campus

Course Website: <http://tlss.uottawa.ca/site/en/tlss-sectors/virtual-campus>

Instructor Information

Instructor name: William Yan, PhD

Office Location: Rm B331 Banting Building, Tunney's Pasture, Ottawa

Office Hours: By Appointment

Office Telephone: 613-948-8478

E-mail: William.Yan@hc-sc.gc.ca or wyan@uottawa.ca

Course Description

This course provides a foundation of infectious diseases. Basic microbiology, virology and immunology will be introduced within an interdisciplinary health context.

Prerequisite: None

Textbook & Course Materials

Required Text

Detailed Course Notes and Powerpoint presentations are available on Blackboard Vista.

Recommended Texts & Other Readings

Optional Reference Textbook – BROCK BIOLOGY OF MICROORGANISMS (14th Edition), Madigan et al., Pearson Benjamin Cummings.

Course Requirements

- Internet connection (DSL, LAN, or cable connection desirable)
- Access to Blackboard Learn

Course Structure

- Lectures are on **Tuesdays 5:30 pm to 8:30 pm, Room WC144.**
- Lecture outlines, course notes and pdf presentations will be posted on the course blackboard (WebCT) at the beginning of the term.
- To access the course website, you must log into Blackboard Learn found here: <https://uottawa.blackboard.com/>.
- To login, type in your **student number and your password.**

Technical Assistance

- If you have problems with your password, call the Centre for Mediated Teaching and Learning at 613-562-5777.

Sessional Dates

Start of the Semester:	January 9
Beginning of classes:	January 10
Reading week:	February 19 to February 25
Last day of classes:	April 8
Final Exam period:	TBD (Exam period April 11 to April 28)

Important Note: This syllabus, along with course assignments and due dates, are subject to change. It is the student's responsibility to check Blackboard Vista for corrections or updates to the syllabus. Any changes will be clearly noted in course announcement or through Virtual Campus email.

Part 2: Course Objectives

General Learning Objectives

Year 1 objective: Students will learn the fundamentals of microbiology and immunology in preparation for future explorations within a broader context.

General learning objectives

By the end of this course, students can be expected to

1. Demonstrate knowledge about mechanisms of immunity and immune function;
2. Describe pertinent microbes that typically play a role in human disease;
3. Describe the principles of infection control and mechanisms of disease transmission and control;
4. Demonstrate familiarity with lab techniques relevant to the discipline; and
5. Describe the role of health professionals in the field of microbiology and immunology.

Part 3: Topic Outline/Schedule

January 10	<ul style="list-style-type: none"> - General Principles of microbiology - Pathogenesis of Infectious Diseases - Immunity to Infection - Immunization (Vaccination)
January 17	<ul style="list-style-type: none"> - Antibiotic Resistance - General principles of diagnostic microbiology
January 24	NO CLASS
January 31	<ul style="list-style-type: none"> - Gram-positive cocci - Gram-negative cocci
February 7	First Midterm Exam
February 14	<ul style="list-style-type: none"> - Gram-positive bacilli - Gram-negative bacilli
February 21	<i>Reading Week – no class</i>
February 28	<ul style="list-style-type: none"> - Mycobacteria - Spirochetes - Chlamydia, Mycoplasmas - Mycotic (Fungal) Infections
March 7	<ul style="list-style-type: none"> - Parasitic Infections
March 14	Second Midterm Exam
March 21	<ul style="list-style-type: none"> - General characteristics of viruses - Respiratory Viruses - Enteric Viruses - Viruses causing diarrhea - Viruses causing exanthems
March 28	<ul style="list-style-type: none"> - Viruses causing glandular enlargement - Viruses infecting the CNS - AIDS and HIV
April 4	<ul style="list-style-type: none"> - Nosocomial Infection & Hospital Infection Control - Cleaning, Disinfection & Sterilization - Review

Part 4: Grading Policy

First Midterm Exam (20%) – Multiple Choice questions covering first 4 lectures

Second Midterm Exam (30%) – Multiple Choice and Short Answer questions covering lectures 5 to 7

Final Exam (50%) – Cumulative on entire course with focus on material covered in lectures 8 to 10 (Multiple Choice and Short Answer questions)

All three exams are required to be completed. Failure to do so will result in a Final Grade of EIN.

Late Work Policy

Be sure to pay close attention to deadlines—there will be no makeup assignments or quizzes, or late work accepted without a serious and compelling reason and instructor approval. A student who misses an examination because of medical reasons must provide a valid medical note, and must email the professor before the exam – and confirm that it has been received. All other reasons for missing an examination must be discussed with the course professor at least a week before the examination. Each case will be considered on an individual basis. A student who misses an examination without a valid reason and prior permission will receive a grade of zero on that examination.

Please note: the following types of reasons are not valid to miss an exam:

- "I booked a train ticket to go home and I can't get my money back"
- "I have 3 other mid-terms that week and won't have time to study"
- "I lost all my notes"
- "I couldn't get all the readings"

Viewing Grades in Blackboard

Points you receive for graded activities will be posted to Blackboard. Click on the My Grades link on the left navigation to view your points.

Grades will be posted within 2 weeks following each exam.

Letter Grade Assignment

Final grades assigned for this course will be based on the percentage of total marks earned and are assigned as follows:

Letter Grade	Percentage Scale Value	Numerical Value
A+	90-100%	10
A	85-89%	9
A-	80-84%	8
B+	75-79%	7
B	70-74%	6
C+	65-69%	5
C	60-64%	4
D+	55-59%	3
D	50-54%	2
E	40-49%	1

Letter Grade	Percentage Scale Value	Numerical Value
F	0-39%	0
ABS	Absent	0
EIN	Failure/Incomplete	0

Passing grades

At the undergraduate level, the passing grade is usually set at D.

At the Faculty of Education, the passing grade is C.

At the School of Nursing, the passing grade is C+ for six clearly specified courses.

At the Faculty of Engineering, the passing grade is D+ for all level-2000 courses and above.

At the graduate-studies level, the passing grade is C+.

**** Important: Grades are not negotiable. ****

Part 5: Academic Fraud and Plagiarism

Academic fraud – <http://www.uottawa.ca/academic-regulations/academic-fraud.html>

Academic fraud is an act by a student that may result in a false academic evaluation of that student or of another student. These include:

- Not work of the student: academic paper, an essay, a test, an exam, a research report (written or oral)
- Presents research data that has been falsified/concocted;
- Attributes a statement of fact or reference to a concocted source;
- Submits same piece of work or significant part thereof for more than one course;
- Falsifies an academic evaluation, forged or falsified academic record;
- Undertakes any other action for the purpose of falsifying an academic evaluation.

Possible repercussions of academic fraud:

- Letter written by the dean
- Dossier will go to the faculty committee for review
- Sanction by the faculty committee can be recommended
- Dossier can go to the executive where a decision is made
- Dossier may go to the university committee where a decision is made
- Student may receive a mark of 0 on the work; may receive a mark of 0 for the course; and in extreme circumstances, be expelled from the school

Plagiarism - <http://www.sass.uottawa.ca/writing/kit/plagiarism.pdf>

Please do not copy work from other people and pass it off as your own! Reference all information that does not come from your own head, even if it's from an email or a conversation you had with someone. If you are using a direct quote, remember to include quotation marks and the source reference.

Important Note

Any form of academic dishonesty, including cheating and plagiarism, may be reported to the Interdisciplinary School of Health Sciences.

Part 6: The University of Ottawa

The University of Ottawa will not tolerate any act of sexual violence. This includes acts such as rape and sexual harassment, as well as misconduct that take place without consent, which includes cyberbullying. The University, as well as various employee and student groups, offers a variety of services and resources to ensure that all uOttawa community members have access to confidential support and information, and to procedures for reporting an incident or filing a complaint. For more information, please visit <http://www.uOttawa.ca/sexual-violence-support-and-prevention/>.

Part 7: Class Code of Conduct

Here we will strive to create and maintain a positive and productive learning environment in which all persons treat each other with respect and courtesy.

Honesty and integrity

- I will adhere to and demonstrate the highest level of honesty in all academic activities, including examinations and evaluations
- I will in no way unfairly attempt to advance my academic standing, nor will I be a party to any such attempts, or assist another student to do so. I will neither provide nor make any attempt to obtain any information, or assist anyone else in doing so, prior to, during or after any examination

Altruism and Respect

- I will strive to demonstrate the highest standards of ethical and professional behavior in all academic settings
- I will refrain from any form of discrimination based on race, religion, ethnicity, gender, sexual orientation, mental or physical impairment, age or illness. I will avoid sexual and all other forms of exploitation of members of the University of Ottawa, including abuse, harassment or impropriety
- I will display and expect non-discriminatory and respectful behaviour towards and from my peers, teachers and support staff
- I will use appropriate salutations and methods of address for all email correspondence, and provide my full name and student number
- I will address my academic concerns in a respectful manner with my professor, and not with other members of the University community (ie. dean, director).

Responsibility and Accountability

- I will demonstrate an ability to work independently while accepting direction from those charged with my supervision
- I will acknowledge and recognize my strengths and limitations and I will seek assistance as necessary
- I will demonstrate accessibility, attendance, punctuality and trustworthiness
- I will present and conduct myself in a dignified, respectful and professional manner while functioning in an official capacity
- I will accept and be accountable for my performance in this course and not attempt to rely on negotiation to improve my class standing
- I will contact the professor via formal email procedures immediately upon missing quizzes, midterms or exams due to illness or other valid reason

Dedication and Self-Improvement

- I will continuously strive to develop my knowledge, skills and competence
- I will promote and uphold the educational standards of the Health Sciences Program
- I will assess my educational progress and determine my learning needs
- I will pursue self-education through the use of appropriate resources and I will prepare myself for all learning sessions
- I will seek further instruction in areas of both strength and weakness
- I will demonstrate a willingness to teach and share in the learning process with my peers, staff and faculty and as such promote the student-teacher relationship and not abuse this trust for personal gain
- I will seek help from colleagues and appropriately qualified professionals for personal problems that adversely affect my education.

Cell Phones / Pagers/Blackberries

Use of cell phones in class is not permitted; they must be turned off or set to vibrate mode. Pagers are permitted provided that ringers are silenced.

No recording (audio, video) of lectures is permitted unless special permission is given.

Noise and Conversation

Please refrain from conversations and discussion during lectures out of consideration for both the professor and your classmates.

Part 8: Students Resources

Mentoring Centre – <https://sass.uottawa.ca/en/mentoring>

Academic Writing Help Centre - <http://www.sass.uottawa.ca/writing/>

Career Services - <http://www.sass.uottawa.ca/careers/>

Counselling Service- <http://www.sass.uottawa.ca/personal/>

Access Service - <http://www.sass.uottawa.ca/access/>

**Student Resources Centres –
<http://www.communitylife.uottawa.ca/en/resources.php>**