

Course & Instructor Information

Course Coordinator

Dr. Liliana Clemenza liliana.clemenza@utoronto.ca

Office Hours: Monday, 2-3pm via Teams (drop-in)

Lecturer	Email
L. Clemenza	liliana.clemenza@utoronto.ca
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T. Mallevaey	thierry.mallevaey@utoronto.ca

Delivery Mode:

In-person Lectures: Thursday, 9am-11am. The lectures will be recorded and posted on Quercus. Attendance is not mandatory, but a 2% bonus will be awarded for attending eight of 10 lectures for 102 possible Quercus points for the course. Please note that the highest score we can enter as an official grade for the course is 100. Therefore, a student with a perfect score of 100 before the bonus will see their grade of 100 unchanged.

In-person Tutorials: Fridays, 1-2 pm. Attendance is mandatory. New material will be discussed and assessed.

Arts & Science Calendar Course Overview (20L/9T)

IMM341H, 'Fundamental Immunology,' introduces the basic principles and key players of the immune system: the differences and interplay between innate and adaptive immunity, how immune cells develop and function, and how immune cells recognize threats and danger and mount an appropriate and measured response.

Prerequisite: BIO230H1

Required Textbook: Janeway's Immunobiology: 10th Edition by Murphy, Wearer, Berg

Evaluation Scheme & Course Assessments

Assessment	% of Grade	Due Date
Janeway's Readings & InQuizitive	10%	Ongoing
Tutorial Assignment	15%	Ongoing
Test 1	17.5%	September 26, 9:30am-11am
Test 2	17.5%	October 24, 9:30am-11am ET
Final Assessment	40%	TBA

1. Readings and InQuizitive (10 Quizzes, each worth 1% - total 10%)

Janeway’s textbook and companion site, InQuizitive, are mandatory resources for this course and can be purchased for CAD 65.00. Purchase instructions can be found [here](#), and student help notes can be found [here](#).

Readings related to the weekly lecture will be assigned every Wednesday evening, along with an associated InQuizitive quiz. In InQuizitive, students must answer a minimum number of questions in each activity before receiving a grade and reach a Target Score to earn 100%. The quiz must be completed by noon on Thursday of the following week (one-week window). Please note: **the readings might contain content not covered in lectures that are testable on InQuizitive.**

When the course becomes visible to students, an activity called “How to use InQuizitive” will be available on Quercus.

There are no make-ups for missed InQuizitive homework, given the nature of the assessment and since there is a one-week period for completion.

1. Tutorial Assignment (9 submissions, each worth 1.66% - total 15%)

Every week, you will submit a Quercus assignment (format short answer questions, max 800 words for all answers) based on your Friday tutorial topic. Readings and presentation slides will be posted on Quercus by Friday morning. The assignment will be released on Fridays at 3 pm, with the due date the following week on Friday at 11:59 pm.

Use of generative AI tools: Students may use artificial intelligence tools to create an outline for an assignment, but the final submitted assignment must be original work produced by the individual student alone. This use must be documented in an appendix for each assignment. The documentation should include what tool(s) were used, how they were used, and how the ideas generated by the AI were incorporated into the submitted work.

Please note that any uses of generative AI beyond those listed above are not permitted and will be considered unauthorized aid, which is an academic offence. Submissions will be assessed at the discretion of the course coordinator, and students will be asked to show evidence of their work if a case of Academic Integrity and the inappropriate use of Generative AI tools is suspected.

Submissions will be evaluated by the instructor or TA based on the following composition rubric.

CRITERIA	EXEMPLARY (4 POINTS)	PROFICIENT (3 POINTS)	EMERGING (2 POINTS)	BEGINNER (1 POINT)
INTRODUCTION	Background is highly developed; well- focused on purpose of assignment; provides extensive and clear context of main ideas	Background is largely developed; good focus on purpose of assignment; context of main ideas mostly clear and sufficient	Background is moderately developed; focus on purpose inconsistent; context of main ideas is brief and somewhat vague	Background is not well-developed; lacks focus on purpose; context of discussion and main ideas are vague or underdeveloped
DEVELOPMENT OF MAIN CONTENT	Excellent analysis; offers multiple insights; outstanding use of relevant evidence to support	Good analysis; offers some insights; good use of relevant evidence to support assertions	Moderate analysis; offers few insights; use of relevant evidence to support assertions is marginal	Lacks analysis and offers few insights; evidence to support assertions often not explored or

	assertions			irrelevant
ORGANIZATION AND FLOW	Consistently strong topic sentences followed by relevant and deep discussion; consistently engaging narrative	Generally strong topic sentences followed mostly by relevant and deep discussion; narrative is clear and mostly focused	Sufficient topic sentences; supports are relevant but underdeveloped; narrative lacks focus at times	Inconsistent or weak topic sentences; supports often relevant, tangential, or vague; narrative is not clear and lacks focus
GRAMMAR AND SPELLING	Masterful use of grammar; no spelling errors	Generally good; some minor errors in grammar and/or spelling	Several grammatical and/or spelling errors	Many grammatical and spelling errors

Rubric adapted from:

<https://ctfd.sfsu.edu/sites/default/files/Rubric%20for%20Formative%20Peer%20Review%20of%20Students%27%20Work.pdf>

Refer to the “Missed Assessment Policy” section below for information on requesting accommodation for a missed peer scholar assignment and possible accommodations.

3. Tests and Final Assessment

Term Tests 1 and 2 will take place online via Quercus Quizzes. Test dates and coverage/format are highlighted below:

Test 1 (17.5%): Test 1 will take place **online on September 26, 2024, from 9:30 to 11 a.m.** It will cover Lectures 1-3 of the course, with 10 questions per lecture in a multiple-choice format.

Test 2 (17.5%): Term Test 2 will take place **online on October 24, 2024 from 9:30am to 11am.** It will cover Lectures 4-6 of the course, with 10 questions per lecture, in multiple-choice format.

In-person Final Exam (40%): The Faculty of Arts & Science will schedule the final exam date. The Final Exam will cover lectures 7-10 of the course, with 10 questions per lecture in a multiple-choice format.

Refer to the “Missed Assessment Policy” section below for information on how to request accommodation for a missed test/assignment and what accommodations may be possible.

Missed Assessment Policy

- This course follows the University of Toronto’s Policies on missed tests and assignments and requires students to complete an Absence Declaration on Acorn for illness-related circumstances.
- Other reasons for missing course assessments will require prior approval by the course coordinator. If approval is not granted in advance for non-medical reasons, then 0% will be recorded for the missed assessment.
- Note: If you submit an assessment, it will be assumed that you deemed yourself fit enough to do so and your grade will stand as calculated. No accommodations will be made based on claims of medical, physical or emotional distress **after** the fact.
- **InQuizitive Homework** – There are no make-ups for missed InQuizitive homework, given the nature of the assessment and since there is a one-week period to complete it.

- **Tutorial Assignment** – There are no make-ups for missed tutorial assignments, given the nature of the assessment and stepwise schedule. If accommodation is requested for a missed assignment as above and is granted by the course coordinator, the weighting for that assignment will be shifted to your other tutorial assignments; otherwise, 0% will be recorded for your missed assignment. **Since these Tutorial Assignments are important to the course learning outcomes, at most one assignment can be accommodated in this way. 0% will be recorded for any additional missed assignments.**
- **Missed Tests** – Missed tests/final assessments will be accommodated at the course coordinator's discretion. *Make-up tests/final assessments will be composed of a mix of short-answer and multiple-choice questions.*

Course Schedule

Lecture Date	Tutorial Date	Lecture	Lecturer
Sept 5	Sept 6	Overview of the Immune System	L. Clemenza
Sept 12	Sept 13	Innate immunity	L. Clemenza
Sept 19	Sept 20	The inflammatory response and the Complement System	L. Clemenza
Sept 26	N/A	Test 1	
Oct 3	Oct 4	Antibody structure and diversity	R. Amith
Oct 10	Oct 11	B cell development	R. Amith
Oct 17	Oct 18	The MHC complex & antigen presentation	T. Mallevaey
Oct 24	N/A	Test 2	
Nov 7	Nov 8	T cell development	T. Mallevaey
Nov 14	Nov 15	T cell activation, differentiation, and functions	L. Clemenza
Nov 21	Nov 22	B cell differentiation and functions of Ig classes	L. Clemenza
Nov 28	N/A	Lymphocyte signaling	L. Clemenza

October 28-November 4: reading week

Accessibility Needs:

The University of Toronto is committed to accessibility. If you require accommodations for a disability, or have any accessibility concerns about the course, the classroom or course materials, please contact Accessibility Services as soon as possible: disability.services@utoronto.ca or <http://studentlife.utoronto.ca/accessibility>.

Masks on Campus:

While the mask mandate has been paused as of 1 July 2022, the use of medical masks continues to be strongly encouraged in high density indoor settings where physical distancing is not possible. Please wear a mask when attending lectures or tutorials unless not able to do so due to health conditions.