

IMM351H1 – The Immune System in Action illustrates how different elements of the immune system come together to mount efficient and measured responses. Topics include response to infectious microorganisms, allergy and autoimmunity, immune responses against cancer, and transplantation immunology.

Course Coordinators: L. Clemenza

Office Hours: All Mondays 2:30-3:30pm, Teams Office Hours Room. Other times can be arranged by appointment.

Lecturers	Email
T. Mallevaey	thierry.mallevaey@utoronto.ca
L. Clemenza	liliana.clemenza@utoronto.ca
A. Mortha	arthur.mortha@utoronto.ca
S. MacParland	s.macparland@utoronto.ca
L. Serghides	lena.serghides@utoronto.ca
T. Watts	tania.watts@utoronto.ca
S. Berger	stuart.berger@utoronto.ca

Delivery Mode:

In-person Lectures: Thursday, 10am-12pm. The lectures will be recorded and posted on Quercus.

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

Evaluation Scheme and Summary of assessments:

Assessment	% of Grade	Due Date
Janeway's Readings & InQuizitive	10%	Ongoing
Tutorial Assignments	22%	Ongoing
Test 1	21%	February 1, 10am-12pm
Test 2	26%	March 14, 10am-12pm ET
Final Assessment	21%	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](#). **Note: If you have already purchased the InQuizitive package as an IMM340 student in the fall 2023, you still have access to Janeway's resources and ebook and you will not buy it again.**

Readings related to the weekly lecture will be assigned every Thursday at noon, 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 11:59pm on Thursday of the following week (one-week window). An activity called "How to use InQuizitive" will be available on Quercus when the course becomes visible to students.

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 Assignments (10 submissions, each worth 2.2% - total 22%)

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 assignments are released on Fridays at 3 pm and need to be submitted by Friday at 11:59 pm of the following week.

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 assertions	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 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 how to request accommodation for a missed peer scholar assignment and what accommodations may be possible.

3. Tests and Final Assessment

Term Tests 1 and 2, as well as the Final Assessment in the course will take place online via Quercus Quizzes. Test dates and coverage/format are highlighted below:

Test 1 (21%): Test 1 will take place **online on February 1, 2024**, from **10am to 12pm**. It will cover lectures 1-3 of the course, 10 questions per lecture, multiple-choice format.

Test 2 (26%): Term Test 2 will take place **online on March 14, 2024**, from **10am to 12pm**. It will cover lectures 4-7 of the course, 9 questions per lecture, multiple-choice format.

Final Assessment (21%): The date of the Final Assessment will be scheduled by the Faculty of Arts & Science. The Final Assessment will cover lectures 8-10 of the course, 10 questions per lecture, multiple-choice format.

Refer to the “Missed Assessment Policy” section below for information on how to request accommodation for a missed test/final assessment 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/Final Assessment** – 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

Date	Lecture (Thursdays, 10am-noon)	Lecturer
Jan 11	Innate Lymphocytes	T. Mallevaey



Jan 18	Mucosal Immunity	A. Mortha
Jan 25	The microbiota and the Immune System	L. Clemenza
Feb 1	Term Test 1	N/A
Feb 8	Cancer Immunology	L. Clemenza
Feb 15	Cancer Immunotherapy	T. Mallevaey
N/A	Reading Week – No Class	N/A
Feb 29	Transplantation Immunology	S. MacParland
Mar 7	Immune memory & vaccination	T. Watts
Mar 14	Term Test 2	N/A
Mar 21	Immune responses to viral & bacterial infections	L. Serghides
Mar 28	Autoimmunity	S. Berger
April 4	Hypersensitivity reactions	L. Clemenza

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>.