

## 2023F Biol 4011 Immunology Course Outline

Instructor:	Dr. Wensheng Qin (Biomassb@gmail.com) Office: CB 4016, Tel: 807-343 8010 ext. 8467
Meeting Time:	2:30-4:00 PM
Meeting Days:	Monday & Wednesday
Meeting Place:	AT1007
Instructional Type:	Lecture
Course ID:	147487
Teaching Assistant (TA)	Dr. Janak Khatiwada (PhD Degree Student) Email: jkhatiwa@lakeheadu.ca Tel: 807-343 8010 ext. 7141 Office: CB 3037

### Table of Contents of the Textbook

- 1 Overview of the Immune System
- 2 Cells, Organs, and Microenvironments of the Immune System
- 3 Recognition and Response
- 4 Innate Immunity
- 5 The Complement System
- 6 The Organization and Expression of Lymphocyte Receptor Genes
- 7 The Major Histocompatibility Complex and Antigen Presentation
- 8 T-Cell Development
- 9 B-Cell Development
- 10 T-Cell Activation, Differentiation, and Memory
- 11 B-Cell Activation, Differentiation, and Memory
- 12 Effector Responses: Cell- and Antibody-Mediated Immunity
- 13 The Barrier Immunity: Immunology of Mucosa and Skin
- 14 The Adaptive Immune Response in Time and Space
- 15 Allergy, Hypersensitivities, and Chronic Inflammation
- 16 Tolerance, Autoimmunity, and Transplantation

- 17 Infectious Disease and Public Health
- 18 Immunization and Vaccines
- 19 Immunodeficiency Disorders
- 20 Cancer and the Immune System

Fall 2023 Term Courses	
First Day of Classes	Tuesday, September 5, 2023
Final Day of Classes	Monday, December 4, 2023
Final Date to Register (Add)	Monday, September 18, 2023
Final Date to Withdraw (Drop)	Friday, November 3, 2023
Examination Period	Thursday, Dec. 7, 2023 - Sunday, Dec. 17, 2023 (11 Days)
Exam Contingency Date	Monday, December 18, 2023
Marks Due	Thursday, December 21 2023

#### Course Contents and Schedule

	Fall 2023	Chapter	Title
Week 1	Sept 5-10	1	Overview of the Immune System
Week 2	Sept 11-17	2	Cells, Organs, and Microenvironments of the Immune System
Week 3	Sept 18-24	2	Cells, Organs, and Microenvironments of the Immune System
Week 4	Sept 25-Oct 1, 2023	3	Recognition and Response
Week 5	Oct 2-8	4	Innate Immunity
Fall Reading Week	Oct 9-15 Fall Reading Week without Class)		
Week 6	Oct 16-22 (Oct 18 Wednesday Midterm 25%, covering chapters 1-3)	5	The Complement System
Week 7	Oct 23-29	20	Cancer and the Immune System
Week 8	Oct 30-Nov 5	20	Cancer and the Immune System
Week 9	Nov 6-12	7	Special Topics 1-4 presentation and discussion

Week 10	Nov 13-19	8	Special Topics 5-8 presentation and discussion
Week 11	Nov 20-26	9	Special Topics 9-12 presentation and discussion
Week 12	Nov 27-Dec 3		Special Topics 13-16 presentation and discussion
Week 13	Dec 4 Last Class	10	Flexible

Grades: Total 100% (Midterm exam 25%, Final exam 35%, PPT presentation 30%, Class attendance 10%).

Notes:

[1] The midterm exam (25%) consists of multiple choices and short or long answer questions from Chapters 1-3.

[2] The final exam (35%) consists of multiple choices and short or long answer questions from the Chapters 4-5 & 20.

[3] The class attendance (10%).

[4] For individual student PPT presentation (30%): Each student selects one topic of your own choice in the field of immunology and makes high-quality PPT slides (25-30 slides for your presentation). Each student presents for 25-30 minutes and followed by 5-10 minutes of questions and answering. The slides must be emailed to both the TA Janak Khatiwada [jkhatiwa@lakeheadu.ca](mailto:jkhatiwa@lakeheadu.ca) and the instructor [Biomassb@gmail.com](mailto:Biomassb@gmail.com) forty-eight (48) hours before your presentation, with email subject: Your complete name (First and Last Name) followed by your complete "topic title".

Your presentation will be evaluated by all your classmates plus the teaching assistant (TA) and instructor. We use the average marks of the students, TA, and instructor evaluations. The presentation will be in alphabetical order by the students' last names (will be provided to you or as shown in an attached table. The presentation evaluation criteria form is attached below for your reference. The final student list form will be sent to you before the presentations.

Submission of your evaluation marks (at the end of the class, you must submit the following form before December 8, 2023, to the TA and instructor, I will send you an updated form later).

### **Presentation Evaluation Form**

Evaluator's Name \_\_\_\_\_ Student Number \_\_\_\_\_

Participants - Your opinion matters to us. Using the survey instrument below, please circle one answer for each question. There is space below for additional comments. If you run out of space, please feel free to write on the back of this form. Thanks for attending.

The presenter		Marks	Your evaluation
1	Delivered the materials in a clear and structured manner	Up to 3%	
2	Was knowledgeable about the topic and any related issues	Up to 3%	
3	Maintained my interest during the entire presentation	Up to 3%	
4	Answered questions effectively	Up to 3%	
5	Was enthusiastic about the topic	Up to 3%	
6	Was well organized and prepared	Up to 3%	
The presentation			
7	Was concise and informative	Up to 3%	
8	Contained practical examples and useful techniques or knowledge that applied to current work	Up to 3%	
9	Had effective visual aids	Up to 3%	
10	Provided a great deal of novel information	Up to 3%	
Total		Up to 30%	

Lakehead	Grading System	Biol 4011 Grading Plan (only for your reference)	Grading Scheme
A+	90-100	~20% of the Students	20% x 95 = 19.00
A	80-89	~30% of the Students	30% x 85 = 25.50
B	70-79	~30% of the Students	30% x 75 = 21.50
C	60-69	~10% or less of the Students with C or Fail	10% x 65 = 6.50
Fail	01-59	~10% or less of the Students with C or Fail	10% X 55 = 5.50
		According to our department advice, a class average should be around 70-75%. Thus, we will have class average no more than 78%. If the class average is too high, the marks will be reduced by percentage.	*Average by calculation = 78%.