



School of Molecular & Cellular Biology

# MCB 408, Fall 2023

Immunology, 3 Credit Hours

## Instructor/Instructional Team

Dr. Beth Stadtmueller

321 Roger Adams Laboratory (RAL)

Office Hours: In-person Mondays, 4:00-5:00 PM in MCB Learning Center room 5; remote by appointment in Zoom

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Alejandra Stenger, Course Coordinator

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Office Hours: By appointment

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## Class Meeting Schedule

- Lecture: MW, 10:00-10:50 AM, 4029 Campus Instructional Facility (CIF)
- Discussion section once a week for 50 minutes with a Graduate Teaching Assistant in 7 Burrill Hall

## Course Overview and Description

Introduction to fundamentals of immunology with emphasis on biological application; basic background for understanding immunological responses and techniques applicable to biological research.

MCB 408 provides a broad introduction to the field of immunology. The course covers the fundamental principles of immunological responses and how they impact human health and disease. The course also highlights laboratory techniques used for immunological research and medical advances that harness the power of the immune system. The course is organized in three parts:

- (1) Introduction to the Immune system and Innate Immunity
- (2) Adaptive Immunity
- (3) Immunology in health, disease and research.

However, as you will learn, the interrelated nature of immunology blurs the boundaries between these topics and thus, course discussion sections will feature activities aimed at integrating content into usable knowledge.

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## Course Prerequisites, Requirements met

- Prior enrollment in MCB 250, MCB 251, MCB 252, MCB 253, and MCB 354; or consent of instructor.
- MCB 408 is an advanced MCB course that counts for MCB major/minors advanced course credit.

## Student Learning Outcomes

At the end of the course, through assignments, discussions, activities and assessments, students will be able to:

- Understand fundamental concepts of the immune system and its interactions with the external environment (e.g. pathogens and commensal organisms).
- Understand fundamental concepts related to immunological research.
- Clearly communicate immunological concepts to a general audience.

## Course Text/Materials Information

Required Text Books:

1. [Kuby immunology](#). Punt, J., S. A. Stranford, P. P. Jones and J. A. Owen (2019). New York, Macmillan Learning.
2. [An elegant defense : the extraordinary new science of the immune system : a tale in four lives](#). Richtel, M. (2019). New York, NY, William Morrow, an imprint of HarperCollins Publishers.

Recommended Texts:

1. How the immune system works. Sompayrac, L. (2019). Hoboken, NJ, Wiley Blackwell.
  - a. This text is designed to provide straight forward and simple explanation of topics.
2. Janeway's immunobiology, 10th edition. Murphy, K., C. Weaver and Berg, L.J. (2022). W. W.Norton & Company
  - a. This is likely one of the most detailed and meticulously researched Immunology Textbooks and in some cases will provide more information than required texts.

## Course Website, Course Tools

MCB 408 Course Website ([www.life.illinois.edu/mcb/408](http://www.life.illinois.edu/mcb/408))

Login: NetID

Password: Active Directory Password

LON-CAPA ([www.lon-capa.illinois.edu](http://www.lon-capa.illinois.edu))

Login: NetID

Password: Active Directory Password

Course Gradebook (<https://apps.atlas.illinois.edu/Gradebook>)

Login: NetID

Password: Active Directory Password

**MCB 408 Tentative Course Calendar Part I (Weeks 1-5) Introduction to the Immune system and Innate Immunity**

<b>Week 1</b>		<b>Monday</b>	<b>Wednesday</b>	<b>Discussion</b>
		<b>Lecture 1</b>	<b>Lecture 2</b>	<b>TBL Intro</b>
	Date	8/21	8/23	
	Topics	L1-Course Information	L2-Basic concepts	
	Reading (Kuby)		Ch 1 (p 1-30)	
	Reading (Richtel)		Ch 1-4 (p 3-26)	
	Other		NO QUIZ	
<b>Week 2</b>		<b>Lecture 3</b>	<b>Lecture 4</b>	<b>TBL</b>
	Date	8/28	8/30	
	Topics	L3-Immune system Environments: Cells	L4-Immune system Environments: Organs	
	Reading (Kuby)	Ch 2; p 781-788*		
	Reading (Richtel)	Ch 5-8		
	Other	*suggested	Quiz opens 1pm	
<b>Week 3</b>			<b>Lecture 5</b>	<b>TBL</b>
	Date	9/4	9/6	
	Topics	Labor Day, No class	L5-Recognition and Response	
	Reading (Kuby)		Ch 3	
	Reading (Richtel)		Ch 9-12	
	Other		Quiz opens 1pm	
<b>Week 4</b>		<b>Lecture 6</b>	<b>Lecture 7</b>	<b>TBL</b>
	Date	9/11	9/13	
	Topics	Innate Immunity I	Innate Immunity II	
	Reading (Kuby)	Ch 4	Ch 4	
	Reading (Richtel)	Ch 13-16		
	Other		Quiz opens 1pm	
<b>Week 5</b>		<b>Lecture 8</b>	<b>Lecture 9</b>	<b>Exam prep</b>
	Date	9/18	9/20	
	Topics	Complement System	Complement System II	
	Reading (Kuby)	Ch 5	Ch 5	
	Reading (Richtel)	Ch 17-20		
	Other		Quiz opens 1pm	
<b>Exam 1</b>	<b>Topics</b>	<b>Date</b>	<b>Time</b>	<b>Notes</b>
	PART I	M, 9/25	7-9pm	

## MCB 408 Tentative Course Calendar Part II (Weeks 6-10) Adaptive Immunity

<b>Week 6</b>		<b>Monday</b>	<b>Wednesday</b>	<b>Discussion</b>
		<b>No Lecture</b>	<b>Lecture 10</b>	<b>TBL</b>
	Date	9/25	9/27	
	Topics	Exam 1	Receptor Diversity	
	Reading (Kuby)		Ch 6	
	Reading (Richtel)		Ch 21-23	
	Other		Quiz opens 1pm	
<b>Week 7</b>		<b>Lecture 11</b>	<b>Lecture 12</b>	<b>TBL</b>
	Date	10/2	10/4	
	Topics	MHC	MHC+T-cells (development)	
	Reading (Kuby)	Ch 7	Ch 7, 8, 10*	
	Reading (Richtel)	Ch 24-26		
	Other		Quiz opens 1pm *several pages	
<b>Week 8</b>		<b>Lecture 13</b>	<b>Lecture 14</b>	<b>TBL</b>
	Date	10/9	10/11	
	Topics	T-cells (Activation)	B cells (Development)	
	Reading (Kuby)	Ch 10	Ch 9	
	Reading (Richtel)	Ch 27-30		
	Other		Quiz opens 1pm	
<b>Week 9</b>		<b>Lecture 15</b>	<b>Lecture 16</b>	<b>TBL</b>
	Date	10/16	10/18	
	Topics	B cells (Activation)	Effector Functions (humoral)	
	Reading (Kuby)	Ch 11	Ch 11-12	
	Reading (Richtel)	Ch 31-33		
	Other		Quiz opens 1pm	
<b>Week 10</b>		<b>Lecture 17</b>	<b>Lecture 18</b>	<b>Exam Prep</b>
	Date	10/23	10/25	
	Topics	Effector Functions (Cell-mediated)	Cell movement and Barrier immunology	
	Reading (Kuby)	Ch 12	Ch 13-14	
	Reading (Richtel)	Ch 34-35		
	Other		Quiz opens 1pm	Exam Review
<b>Exam 2</b>	<b>Topics</b>	<b>Date</b>	<b>Time</b>	<b>Notes</b>
	PART II*	M, 10/30	7-9pm	

**MCB 408 Tentative Course Calendar Part III (Weeks 11-16) Applied immunology and research: health, disease, and methods**

<b>Week 11</b>		<b>Monday</b>	<b>Wednesday</b>	<b>Discussion</b>
		<b>No Lecture</b>	<b>Lecture 19</b>	<b>Project</b>
	Date	10/30	11/1	
	Topics		SARS-Cov-2; Project Intro.	
	Reading (Kuby)			
	Reading (Richtel)		Ch 36-38	
	Other	Exam	Quiz opens 1pm	
<b>Week 12</b>		<b>Lecture 20</b>	<b>Lecture 21</b>	<b>Project</b>
	Date	11/6	11/8	
	Topics	Infectious disease: Viruses and vaccines	Infectious disease: HIV	
	Reading (Kuby)	Ch 17 (p 637- 650; 662-675)	Ch 18 (p 699-718)	
	Reading (Richtel)	Ch 39-46		
	Other		Quiz opens 1pm	
<b>Week 13</b>		<b>Lecture 22</b>	<b>Lecture 23</b>	<b>Project</b>
	Date	11/13	11/15	
	Topics	Infectious disease and commensal microbes	Allergy and Chronic inflammation	
	Reading (Kuby)	Ch 13 p 481-501 Ch 17 p651-659	Ch 15	
	Reading (Richtel)	Ch 47-50		
	Other		Quiz opens 1pm	
<b>Week 14</b>	No Class, quizzes or discussion			
	Date	11/20	11/22	11/25-11/26
	Topics	Fall Break	Fall Break	Fall Break
	Reading (Kuby)	No Class	No Class	No Class
<b>Week 15</b>		<b>Lecture 24</b>	<b>Lecture 25</b>	<b>Project</b>
	Date	11/27	11/29	12/2-12/3
	Topics	Allergy and Chronic inflammation -2	Autoimmune disease	
	Reading (Kuby)	Ch 15	Ch 16	
	Reading (Richtel)		Ch 50-55	
	Other		Quiz opens 1pm	T
<b>Week 16</b>		<b>Lecture 26</b>	<b>Lecture 27</b>	
	Date	12/4	12/6	No Discussion
	Topics	Cancer Immunology and immunotherapy	Experimental Approaches and Conclusion	Exam Review time TBD
	Reading (Kuby)	Ch 19	Ch 20	
	Reading (Richtel)			

	Other		PROJECT DUE	
Exam 3	Topics	Date	Time	Notes
	L19-27	12/14	8-11AM	Thursday

## Grading Information and Breakdown

Student grades in MCB 408 will be based on total of 1000 points. Categories listed below are approximate but should closely resemble the final distribution.

3 exams	600
Final Project	200
Quizzes	100
Discussion Participation	100
<b>Total</b>	<b>1000 points</b>

A more specific point breakdown for MCB 408 follows:

100 points	Discussion attendance and participation (13 @ 10 points each, drop 3)
100 points	Quizzes (14 @ 10 points each, drop 4)
600 points	Exams (3 @ 200 points each)
200 points	Final Project (rubric TBA)
<b>1000 points</b>	<b>Total</b>

The point totals contained in the following table represent the use of the plus/minus grading system coupled with a 4.0 grade point system. The grade point values shown for each letter grade have been assigned by the University. Students who earn the points shown below (out of 1000 possible points), will be guaranteed the indicated letter grade. At semester's end, after the final exam, the faculty will analyze the course grade distribution, and may decrease (to accommodate poor class performance on an examination), but will not increase the points needed for each grade.

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## MCB 408 Standard Grade Scale

Letter Grade	High Point Range	Low Point Range	Grade Point Value
A+	1000	950	4.000
A	949	899	4.000
A-	898	848	3.667
B+	847	797	3.333
B	796	746	3.000
B-	745	695	2.667
C+	694	644	2.333
C	643	593	2.000
C-	592	542	1.667
D+	541	491	1.333
D	490	440	1.000
D-	439	389	0.667
F	388	0	0.000

## Course Policies

### MCB Curriculum Policies

All students enrolled in an MCB course are assumed to have read and understood the MCB Curriculum Policies (listed below) and will be expected to act accordingly.

### Section Change, Add/Drop Information

Students may use UI Enterprise to add or drop MCB 408, or to change MCB 408 discussion sections before 5:00 PM, Friday, September 1, 2023.

Friday, September 1, 2023, at 5:00 PM is the deadline for adding the course and for changing sections in MCB 408.

Students must at all times attend the discussion sections in which they are currently enrolled. Students will not be allowed to sit in other sections at other times for any reason.

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Friday, October 13, 2023, is the last day to drop the course or to elect the Credit/No Credit option.

To elect the Credit/No Credit option, students must apply in their College Office.

To drop the course after the drop deadline, students must petition a dean in their college office and email petitions to Alejandra Stenger for completion of attendance and grade information.

### **When MCB 408 Classes Begin**

MCB 408 lecture will begin on Monday, August 21, 2023, at 10:00 AM, in 4029 Campus Instructional Facility (CIF).

MCB 408 discussion sections will begin on Thursday, August 24, 2023, at 1:00 PM, in 7 Burrill Hall. To access 7 Burrill Hall, you must enter through the MCB Learning Center, 101 Burrill Hall, and take the stairwell down two flights.

### **Contacting MCB Course Personnel**

MCB course personnel are more than happy to assist students.

Emails to instructors, TAs, or course coordinators will only be answered if they come from an @illinois.edu account. We will only use this account in order to protect your educational information and profile. As a student, please remember that when you email a staff member, it is important to include all pertinent information so that we can assist you in the most efficient and effective manner possible. This information includes:

- The course rubric in the subject line
- Your full first and last name
- Your NetID (the first part of your illinois.edu email account)
- Your UIN (9 digit number that can be found on your ICard)
- The course that you are concerned about (the course personnel often work with multiple courses)
- Your section letter/number
- The previous email "thread" or previous communicated information pertinent to the situation

Your cooperation will help us respond much more quickly to your concerns.



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## Exam and Conflict Exam Information

### Exam Instructions

1. Exams 1 and 2 will be given on Monday evenings as noted on the course website and calendar. The exams will begin at 7:00 PM sharp. The exams will cover material from lecture and any assigned reading. Please see the MCB 408 website for any further details concerning each exam.
2. The exams will be administered in-person and proctored (additional information TBA).
3. Have your University photo ID ready to complete these exams.
4. Texting, or the use of a cell phone or any other electronic device for any purpose during an exam, is prohibited. Doing so may earn you a zero on the exam, or more extreme penalty at the discretion of the instructor.

### Exam Conflicts

1. If you have a regularly scheduled University course that conflicts with the exam, you should complete the online [Conflict Exam Request Form](#) on the course website. This request must be made by 5:00 PM not less than 3 business days prior to the exam. Requests made after 5:00 PM and less than 3 business days prior to the exam will not be granted. See course policies for a specific deadline for your course.
2. Work schedules should be adjusted, if at all possible, in order to eliminate a conflict with scheduled exams. Please plan accordingly at the beginning of the semester. If eliminating a conflict is not possible, the student should complete the online [Conflict Exam Request Form](#) on the course website. This request must be made by 5:00 PM not less than 3 business days prior to the exam. Requests made after 5:00 PM and less than 3 business days prior to the exam will not be granted.
3. Students that are formally participating in officially recognized groups, such as athletic teams and performing groups, with a conflict should request a conflict exam by 5:00 PM not less than 3 days prior to the exam via the online [Conflict Request Form](#). Formal participation does not include general meetings of RSOs or any other recognized groups. Documentation of the event will be required prior to scheduling the conflict exam. Requests made after 5:00 PM and less than 3 business days prior to the exam will not be granted.
4. Students with DRES accommodations should also submit the online [Conflict Exam Request Form](#) by 5:00 PM no later than 3 business days prior to the exam. Requests made after 5:00 PM and less than 3 business days prior to the exam will not be granted.

### Exam Absences

1. If you must miss an exam due to unforeseen circumstances, you are required to contact your instructor or course coordinator within 24 hours of the absence. You will then have 48 hours from the absence in which to submit documentation to your course coordinator. You must also submit an online [Absence Form](#). Course personnel will evaluate documentation and decide whether or not there will be an option to compensate for the missed exam through either a make-up exam or proration. Failure to follow this procedure will result in a zero for the exam.
2. If you must miss an exam for job, graduate or professional school interviews, the exam may be prorated. A best effort should be made to schedule these events around exams.

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You will need to be mindful that only one exam may be prorated in a semester for any and all absences.

3. There will be instances when the student must make an individual choice about their ability to perform on an exam and will need to accept any and all consequences for that choice.
4. If the absence is a result of a protracted illness of 3 days or more, you should follow the procedure for obtaining a letter from the Office of the Dean of Students. The request may be made once the student returns to class but not more than 10 business days after the last date of absence.
5. If you miss an exam, the possibility exists to have one exam prorated with proper documentation. You must contact the course coordinator via email within 48 hours of the absence. If you do not provide documentation in a timely manner and upon receipt, there may be a negative impact on your ability to receive a prorated score. **The final exam cannot be prorated.** Your prorated score will be calculated based on the following formula:

$$\frac{\{\text{Exam A}\}(\% \text{tile})(200) + \{\text{Exam B}\}(\% \text{tile})(200) + \{\text{Exam C}\}(\% \text{tile})(200)}{(200 + 200 + 200)} = (\% \text{tile}) = \text{ \_\_\_\_ points for Exam \_\_\_\_}$$

Please note that the percentile that we use to calculate your score may be different from the percentile seen in the online gradebook, due to the accounting for missing scores. You must complete at least two exams and the final in this course in order to earn a letter grade in the course. If you are unable to do so, the instructor will recommend that you drop or withdraw from the course.

Prior to the last day of class, you will be given a preliminary proration of your missing score. This proration is only to give you an idea of what your missing score *would be* based on the other scores that we have for you at that time. Your actual proration will be done with the final exam grade included. Please understand that this preliminary proration score may increase OR decrease depending on your performance on the last exam. The actual proration score will be the score used to determine your final grade.

## Final Exam and Conflict Final Exam Information

### Final Exam Instructions

1. The Final Exam will be administered on Thursday, December 14th 2023 from 8:00-11:00 AM.
2. The exams will be administered in-person and proctored (additional information TBA).
3. Have your University photo ID ready to complete these exams.
4. Texting, or the use of a cell phone or any other electronic device for any purpose during an exam, is prohibited. Doing so may earn you a zero on the exam, or more extreme penalty at the discretion of the instructor.

### Final Exam Conflict

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1. Conflict final exams may only be granted for any one of the following situations:
    - o Students with three final exams scheduled within a 24 hour period as defined in Article 3, Part 2 (3-201, 5). Final Examinations of the Code of Policies and Regulations Applying to All Students which can be found at: <https://studentcode.illinois.edu/article3/part2/3-201/>
    - o Students who have two final exams scheduled at the same time. Final conflict exam requests should be made to the course with larger enrollment. Course personnel can assist with information to determine which course this would be.
    - o Students who have a verified personal problem, and who have received written permission to take a conflict final exam from a dean in their college.
    - o Students who have DRES academic accommodations.
  2. Students that find themselves in any of the above situations should complete the online [Conflict Final Exam Request Form](#) which can be found on the course website. This request must be made by 5:00 PM on the last day of class in order for the request to be granted. Any requests made after this time may not be granted. If a conflict final exam is granted, it may be scheduled at any time during the final examination period and is at the discretion of the course coordinator.

### Final Exam Absence

1. If you must miss a final exam due to unforeseen circumstances, you are required to contact your course coordinator within 24 hours of the absence. You must also contact the Dean of your college. Finally, you must submit an online [Absence Form](#) if one is available on your course website. You will receive an ABS (absent) in the course if you miss the final exam. This ABS will result in an F in the course unless action is taken. The Dean can approve the change of the ABS to an Incomplete, which then allows a limited window of time for you to complete the final exam and earn a grade in the course.
2. There will be instances when the student must make an individual choice about their ability to perform on an exam and will need to accept any and all consequences for that choice.
3. If the absence is a result of a protracted illness, you should follow the procedure for obtaining a letter from the [Office of the Dean of Students](#). The request may be made once the student recovers but not more than 10 business days after the date of absence.
4. Information about final exams can be found in the Student Code: [http://studentcode.illinois.edu/article3\\_part2\\_3-201.html](http://studentcode.illinois.edu/article3_part2_3-201.html)

### General Information and Policies of MCB 408

1. The course faculty and the TAs are in charge of the orderly conduct of students in class and may exclude a student who does not comply with a reasonable request in this regard.
2. All students are assumed to have read and understood the Code of Policies and Regulations Applying To All Students, University of Illinois, and will be expected to act accordingly.

The Code is available online at: <http://studentcode.illinois.edu/index.html>

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3. Concerns over exam grading, discussion teaching or grading, and exam or discussion absences should be directed to the MCB 408 Course Coordinator.
  4. The deadline for grade corrections on all items is *ONE week* after corrected items are returned or grades are received.
  5. Excused class time compensating for evening exams is provided by review sessions given during discussion sections.
  6. Social Media Use:
    - Use of any social or electronic media to share information, request information or make confidential information public is prohibited. Any use of this type may earn you a zero or a more extreme penalty at the discretion of the instructor on an assignment or exam.
    - Any social media sites created in relation to MCB courses must grant access to course personnel upon request. Failure to provide access will result in a failing grade in the course for the group/site's administrator(s).
  7. Course Material:
    - Students are welcome and encouraged to make audio recordings of course lectures.
    - The material recorded is intellectual and copyrighted property of the University of Illinois Board of Trustees and may be made for personal use only.
    - Video recordings of any kind are strictly prohibited.
    - Posting of audio recordings or transcriptions on social or electronic media platforms is strictly prohibited.
    - Posting or redistributing of course material in any format is strictly prohibited.

## Class Attendance

1. Regular class attendance is expected of all students at the University. ([http://studentcode.illinois.edu/article1\\_part5\\_1-501.html](http://studentcode.illinois.edu/article1_part5_1-501.html))
2. The Office of the Dean of Students will only provide informative letters to instructors for protracted illness of 3 or more days, certain emergencies and to be present during the serious illness of immediate family members (parents, legal guardian, spouse/partner, siblings, children, or grandparents). These letters do not excuse you from class but merely provide information for the instructor to consider with regard to excusing the absence and permitting make-up work. Students must request absence letters from the Office of the Dean of Students after the student has returned to class but not more than 10 business days after the last date of absence.
3. Absences that may be excused without a letter include circumstances beyond the student's control such as medical treatment, surgery related to prolonged illness or injury, pregnancy, legal matters, citizenship or naturalization processes, or acts of nature which cause destruction to a primary residence or disrupt air travel. All will require documentation.
4. Absences that may also be excused without a letter include job, graduate or professional school interviews, though a best effort should be made to schedule these events to minimize class attendance disruption.
5. Absences planned for the items listed above must be communicated to your course coordinator at least two weeks in advance of the absence. Failure to do so may result in the loss of opportunity to reschedule the missed class period and the portion of the grade associated with this class period.

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6. Absences that will not be excused include family events such as reunions or weddings, or presence during serious illness of extended family members (aunt, uncle, niece, nephew, or cousin).
  7. Unplanned absences may result in the loss of opportunity to reschedule the missed class period and, therefore, the portion of the grade associated with this class period.
  8. Absences will be handled according to individual course policy.
    - a. Attendance will be recorded at every discussion session. Students must arrive within the first five minutes of class, remain present for the entire class period, and be an active participant in order to receive credit. If you are more than 5 minutes late, you forfeit your discussion points for that week, but you may stay for the class period. If you are on time but are not contributing to your group you also forfeit attendance points for that week at the discretion of the TA.
    - b. Students must attend their scheduled discussion section. Students must at all times attend the discussion section in which they are currently enrolled. Students will not be allowed to sit in other sections at other times for any reason without permission from the course coordinator.
    - c. We know that students become ill and other reasons beyond a student's control arise. In order to accommodate absences due to minor illness or emergency, we allow that a specified number of discussion assignments may be missed without penalty. These missed discussions can be dropped according to the criteria set forth in the Course Policies for this course. Specifically for MCB 408, a student that misses discussion due to minor illness (less than 3 days), chooses not to attend class, and/or forgets to attend class or complete an assignment will use these specified drops. There is no distinction made between illness and missing discussion assignments.
    - d. If you experience an illness (chronic, recurring or lasting three days or more) or other circumstance that causes an extended absence from class (lasting three days or more), please contact the Student Assistance Center in the [Office of the Dean of Students](#). Students may request the letter online [here](#). Please fill out an online absence form for your course which can be found on the course website (<https://apps.atlas.illinois.edu/MCB/McbAbsence>) and upload your documentation there.

The **MCB 408 Gradebook** can be accessed directly at: <https://apps.atlas.illinois.edu/Gradebook>

All scores will be available for student review on the MCB 408 Gradebook. To check your scores, sign into the MCB 408 website and click on the Gradebook link and follow the instructions presented there. All students are responsible for checking their scores on the Gradebook after each exam and quiz is returned to them. Each student is responsible for reporting possible discrepancies and bringing this to the attention of the course coordinator within ONE week of receiving their graded quiz or exam score. Students are encouraged to keep all graded work returned to them until after final grades are issued.

The final deadline for Gradebook corrections is 5:00 PM, Wednesday, 6 December 2023.

No Gradebook scores will be altered after this deadline so please be certain to check all your scores before this time.

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## Discussion Sections

For the first 2/3 of the course, discussion sections are structured as team-based learning activities (TBLs). Each discussion section will be divided into four groups of ~ 5 students each. Together the group will address a question or complete a project and report back to the class with the answer/ completed project. TBL topics will draw from lecture and reading content provided each week and each group member will be given a participation role.

**Reader:** Reads directions and/or questions out loud to group

**Scribe:** Records group activities in google doc.

**Researchers:** Consult text, lectures, online resources

**Reporter:** Summarizes and reports group consensus to class

Group members and roles will change throughout the semester and be assigned by the TA. During the final 1/3 of the course discussion sections will still involve team-based activities, but will focus on providing guidance and working on final projects.

Each student will be awarded **10 points for participation in each discussion section**, up to 100 points. You are encouraged to attend all 14 discussion sections. However, you can miss up to 4 discussions without affecting your final grade.

**Attendance will be recorded at every discussion session.** Each student is required to arrive within the first five minutes of class, remain present for the entire class period, and be an active participant in order to receive credit. If you are more than 5 minutes late, you forfeit your discussion points for that week, but you may stay for the class period. If you are on time but are not contributing to your group you also forfeit attendance points for that week at the discretion of the TA. Questions or clarifications should be addressed to the TAs in discussion or in their office hours.

## Quizzes

A 10-point, 10-question quiz will be given each week to assess student understanding of that week's lecture content. 14 Quizzes will be given total; and you may miss up to three quizzes or drop your lowest three grades for a total of 100 possible points. Make-up quizzes are not planned. Quizzes will be given online and are open-book. Each week, the quiz will be available from Wednesday 1 PM to Thursday at 1 PM. Once you start a quiz you will have 30 minutes to complete it.

## Exams

Three exams, 200 points each, will be given to assess student understanding of the content. Exams will focus on content presented in lectures and discussion sections. The course is divided into three ~ 5-week sessions (see course description and course calendar), each of which concludes with an exam. Exams will be given online and will feature a closed-book, multiple-choice format. Each exam is intended primarily to test knowledge on the content from that session; however, a minority of the questions may integrate content from earlier parts of the course. Please see "Policies Section" for more information.

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## Final Project

With a fundamental understanding of any topic, one should have the skills to communicate that topic to a general (uneducated on the topic) audience. Your final assignment will be to write a report (to a general audience, e.g. your grandmother or your roommate) on any way that the immune system and SARS-CoV-2 interact. For the specific topic you select (e.g. the role that T-cells play in the immune response to Sars-CoV-2) you should comment on what we do know (based on research to date) and what we don't yet know (outstanding questions on the topic). The report should be no longer than 1000 words and should reference at least five sources. We will provide selected literature that you can choose from, but you are not restricted to that literature. During the final third of the course we will provide discussion section guidance on how to write your report as well as feedback on your topic.

### For non-academic campus assistance and support:

- See Office of Diversity, Equity and Access (ODEA) information at the end of this document.

### Student Advocacy Resources:

- For student-centered advocacy programs and services visit: [mcb.illinois.edu/undergrad/advising/resources](http://mcb.illinois.edu/undergrad/advising/resources).

### Policies:

- Unfamiliarity with policies is not a defense for not knowing what they cover.

### Adding the Course after the Semester Starts:

- We understand that the University has an add deadline 10 days into the semester, but the University lets individual courses and/or programs determine their policies for late adds. We feel that students who choose to add a course late do so at their own discretion with knowledge that there may be points lost in the process.

### Religious Observances and Practices:

- Students are required to submit the Request for Accommodation for Religious Observances Form (which can be found at [www.odos.illinois.edu/.../Religious\\_Observance\\_Accommodation\\_Request\\_Form.docx](http://www.odos.illinois.edu/.../Religious_Observance_Accommodation_Request_Form.docx)) to their instructors and the Office of the Dean of Students requesting accommodation by the end of the second week of the course. Requests that are not submitted within this time frame may not be granted. Information about accommodations can be found in the Student Code: <http://studentcode.illinois.edu/>.

### DRES Accommodations:

- We are committed to providing a learning environment where our students can succeed. If you require special accommodations, please contact us and the Disability Resources and Educational Services (DRES) as soon as possible. To contact DRES, you may visit 1207 S. Oak Street, Champaign, call 217.333.4603, or email [disability@illinois.edu](mailto:disability@illinois.edu). We will try to meet all accommodations once the process has started. Please note that accommodations are not retroactive to the beginning of the semester, but begin the day you contact your professor, instructor or coordinator with a current letter of accommodation from DRES.

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- If a student believes that they need DRES accommodations, they should contact DRES at [disability@illinois.edu](mailto:disability@illinois.edu).

### **Class Absences:**

- Regular class attendance is expected of all students at the University.
- If you find yourself ill, you must submit confirmation of a visit with a medical practitioner within 24 hours of your absence. The confirmation cannot be provided by a relative, even if the relative is a practitioner.
- The Office of the Dean of Students will only provide informative letters to instructors for protracted illness of 3 or more days, certain emergencies and to be present during the serious illness of immediate family members (parents, legal guardian, spouse/partner, siblings, children, or grandparents). These letters do not excuse you from class but merely provide information for the instructor to consider with regard to excusing the absence and permitting make-up work. Students must request absence letters from the Office of the Dean of Students after the student has returned to class but not more than 10 business days after the last date of absence.
- Absences that may be excused without a letter include circumstances beyond the student's control such as medical treatment, surgery related to prolonged illness or injury, pregnancy, legal matters, citizenship or naturalization processes, or acts of nature which cause destruction to a primary residence or disrupt air travel. All will require documentation.
- Absences that may also be excused without a letter include a conference or job, graduate or professional school interviews, though a best effort should be made to schedule these events to minimize class attendance disruption. All will require documentation.
- Absences planned for the items listed in previous bullet point must be communicated to your instructor or course coordinator at least two weeks in advance of the absence. Failure to do so may result in the loss of opportunity to reschedule the missed class period and the portion of the grade associated with this class period.
- Absences that will not be excused include family events such as reunions or weddings, or presence during serious illness of extended family members (aunt, uncle, niece, nephew, or cousin).
- Unplanned absences may result in the loss of opportunity to reschedule the missed class period and, therefore, the portion of the grade associated with this class period.
- Absences will be handled according to individual course policy.

### **Exam Absences:**

- If you must miss an exam due to unforeseen circumstances, you are required to contact your instructor or course coordinator within 24 hours of the absence. You will then have 48 hours from the absence in which to submit documentation to your instructor or course coordinator. You must also submit an online Absence Form if one is available on your course website. Course personnel will evaluate documentation and decide whether or not there will be an option to compensate for the missed exam through either a make-up exam or proration. Failure to follow this procedure will result in a zero for the exam.
- If you find yourself ill, you must submit confirmation of a visit with a medical practitioner within 24 hours of your absence. The confirmation cannot be provided by a relative, even if the relative is a practitioner.



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- If you must miss an exam for a conference or job, graduate or professional school interviews, the exam may be prorated. A best effort should be made to schedule these events around exams. You will need to be mindful that only one exam may be prorated in a semester for any and all absences. All will require documentation.
  - There will be instances when the student must make an individual choice about their ability to perform on an exam and will need to accept any and all consequences for that choice.
  - If the absence is a result of a protracted illness of 3 days or more, you should follow the procedure for obtaining a letter from the Office of the Dean of Students. The request may be made once the student returns to class but not more than 10 business days after the last date of absence.

### **Exam Conflicts:**

- If you have a regularly scheduled University course that conflicts with the exam, you should complete the online Conflict Exam Request Form on the course website. This request must be made by 5:00 pm not less than 3 business days prior to the exam. Requests made after 5:00 pm and less than 3 business days prior to the exam will not be granted. See course policies for a specific deadline for your course.
- Work schedules should be adjusted, if at all possible, in order to eliminate a conflict with scheduled exams. Please plan accordingly at the beginning of the semester. If eliminating a conflict is not possible, the student should complete the online Conflict Exam Request Form on the course website. This request must be made by 5:00 pm not less than 3 business days prior to the exam. Requests made after 5:00 pm and less than 3 business days prior to the exam will not be granted.
- Students that are formally participating in officially recognized groups, such as athletic teams and performing groups, with a conflict should request a conflict exam by 5:00 pm not less than 3 days prior to the exam via the online Conflict Request Form. Formal participation does not include general meetings of RSOs or any other recognized groups. Documentation of the event will be required prior to scheduling the conflict exam. Requests made after 5:00 pm and less than 3 business days prior to the exam will not be granted.
- Students with DRES accommodations should also submit the online Conflict Request Form by 5:00 pm no later than 3 business days prior to the exam. Requests made after 5:00 pm and less than 3 business days prior to the exam will not be granted.

### **Final Exam Absence:**

- If you must miss a final exam due to unforeseen circumstances, you are required to contact your instructor or course coordinator within 24 hours of the absence. You must also contact the Dean of your college. Finally, you must submit an online Absence Form if one is available on your course website. You will receive an ABS (absent) in the course if you miss the final exam. This ABS will result in an F in the course unless action is taken. The Dean can approve the change of the ABS to an Incomplete, which then allows a limited window of time for you to complete the final exam and earn a grade in the course.
- There will be instances when the student must make an individual choice about their ability to perform on an exam and will need to accept any and all consequences for that choice.

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- If the absence is a result of a protracted illness, you should follow the procedure for obtaining a letter from the Office of the Dean of Students. The request may be made once the student recovers but not more than 10 business days after the date of absence.
  - Information about final exams can be found in the Student Code: <http://studentcode.illinois.edu/>.

### Final Exam Conflict:

- Conflict final exams may only be granted for any one of the following situations:
  - Students with three final exams scheduled within a 24 hour period as defined in Section 82.A.4). Final Examinations of the *Code of Policies and Regulations Applying to All Students* which can be found at: [www.illinois.edu/admin/manual/code/](http://www.illinois.edu/admin/manual/code/)
  - Students who have two final exams scheduled at the same time. Final conflict exam requests should be made to the course with larger enrollment. Course personnel can assist with information to determine which course this would be.
  - Students who have a verified personal problem, and who have received written permission to take a conflict final exam from a dean in their college.
  - Students who have DRES academic accommodations.
- Students that find themselves in any of the above situations should complete the online Conflict Final Exam Request Form which can be found on the course website. This request must be made by 5:00 pm on the last day of class in order for the request to be granted. Any requests made after this time may not be granted. If a conflict final exam is granted, it may be scheduled at any time during the final examination period and is at the discretion of the instructor or course coordinator.

### Grades:

- Each course has a grade scale. The grade you earn in the course will be based on the points that you earn. Effort is reflected in points earned. We will adhere to the grade scale when assigning grades in order to avoid capriciousness and to adhere to fairness and equity for all students.

### Academic Integrity:

- The Code of Policies and Regulations Applying to All Students will be applied in all instances of academic misconduct committed by students. This applies to all exams, presentations, assignments and materials distributed or used in this course. You can review these policies at the following website: <http://admin.illinois.edu/policy/code/index.html> and specifically here: <http://studentcode.illinois.edu/article1/part4/1-401/>
- Science cannot exist without honesty. The faculty and staff in MCB require students, as scientists-in-the-making, to hold the highest standards of scientific and academic conduct. Any form of cheating on any graded work in courses is unacceptable.
- We require that all graded work be entirely your own, and that anything you write using the words of other writers be correctly attributed. Some specific points follow.
- On exams, the answers that your turn in for grading must be your own, formulated during the exam from your own understanding of the material and without any

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supporting information, be it written, verbal or electronic. Copying the work of another student, or allowing another to copy your work, or copying work from any other source, is unacceptable. Since we cannot always monitor you as you complete your work, we must rely upon appearance of your work from which to judge. If the work you submit resembles that of another student or another source too closely, we may conclude that it was not your original work. Always make a conscious effort to complete your work on your own and to protect it from the view of others, in order to ensure that it will be seen as your own. Failure to adhere to these standards for any portion of an exam may result in a grade of zero for the entire exam or quiz for all persons involved.

- Texting, or the use of a cell phone or any other device for any purpose, during a quiz or exam is prohibited. Doing so may earn you a zero or a more extreme penalty on the quiz or exam at the discretion of the instructor.
- Use of any social or electronic media to share information, request information or make confidential information public is prohibited. Any use of this type may earn you a zero on the exam or a more extreme penalty at the discretion of the instructor.
- On written or electronic assignments, the answers that you turn in for grading must be written in your own words, formulated from your own understanding of the material. While you may be working with other students in the course, you must formulate and submit your own answers. Copying or paraphrasing the work of another student, or allowing another to copy or paraphrase your work, is unacceptable. Since we cannot monitor you as you complete your work, we have only the appearance of your work from which to judge. If the work you submit resembles that of another student too closely, we may conclude that it was not your original work. Always make a conscious effort to complete your work on your own and to protect it from the view of others, in order to ensure that it will be seen as your own. You must also make a conscious effort to protect your passwords and accounts. Failure to adhere to these standards may result in a grade of zero for the entire assignment for all persons involved.
- On written or electronic assignments, if you use a statement taken directly from any book or other publication, including the course textbook, you must provide a citation. That is, you must put the text in quotes and put the author of the publication in parentheses after the quotation. Failure to do so will result in zero credit for that answer. Further, using only the words of another author as your entire answer or as the majority of your answer to any question is never sufficient to earn credit. If the majority of your work has been taken directly from a publication, you are likely to receive no credit for the work, since you would not be demonstrating knowledge beyond the ability to copy. Even if you quote another, your answer must be substantially your own words, drawn from your own understanding of the material.

### **Electronic Media/Device Use:**

- Use of any social or electronic media to share course information, request course information or make confidential course information public is prohibited. Any use of this type may earn you a zero on an assignment or exam or a more extreme penalty at the discretion of the instructor.
- Any violation of the social media policy **on your account** may result in a zero on an assignment or exam or a more extreme penalty at the discretion of the instructor.
- Any social media sites created in relation to MCB courses must grant access to course personnel upon request. Failure to provide access will result in a failing grade in the course for the group/site's administrator(s).

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- No electronic devices, including smart watches, are allowed at exams.

### Course Material:

- Students are welcome and encouraged to make audio recordings of course lectures.
- The material recorded is intellectual and copyrighted property of the University of Illinois Board of Trustees and may be made for personal use only.
- Video recordings of any kind are strictly prohibited.
- Posting of audio recordings or transcriptions on social or electronic media platforms is strictly prohibited.
- Posting or redistributing of course material in any format is strictly prohibited.

### University Information of Student Safety - Active Threats:

- **General Emergency Response Recommendations** ([Emergency Response Guide](#)):
- Security Threat. The Department of Homeland Security and the University of Illinois at Urbana-Champaign Office of Campus Emergency Planning recommend the following three responses to any emergency on campus: **RUN > HIDE > FIGHT**
- **Only follow these actions if safe to do so.** When in doubt, follow your instincts - you are your best advocate!
- **RUN** – Action taken to leave an area for personal safety.
  - Take the time to learn the different ways to leave your building **before** there is an emergency.
  - Evacuations are mandatory for fire alarms and when directed by authorities! No exceptions!
  - Evacuate immediately. Pull manual fire alarm to prompt a response for others to evacuate.
  - Take critical personal items only (keys, purse, and outerwear) and close doors behind you.
  - Assist those who need help, but carefully consider whether you may put yourself at risk.
  - Look for **Exit** signs indicating potential egress/escape routes.
  - If you are not able to evacuate, go to an Area of Rescue Assistance, as indicated on the front page of this plan.
  - Evacuate to Evacuation Assembly Area, as indicated on front page of this plan.
  - Remain at Evacuation Assembly Area until additional instructions are given.
  - Alert authorities to those who may need assistance.
  - Do not re-enter building until informed by emergency response personnel that it is safe to return.
  - Active Threat: IF it is safe to do so, run out of the building. Get as far away as possible. Do NOT go to the Evacuation Assembly Area.
- **HIDE** – Action taken to seek immediate shelter indoors when emergency conditions do not warrant or allow evacuation.
  - Severe Weather:
    - If you are outside, proceed to the nearest protective building.
    - If sheltering-in-place due to severe weather, proceed to the identified Storm Refuge Area or to the lowest, most interior area of the building away from windows or hazardous equipment or materials.
  - Active Threat:

- Lock or barricade your area.
- Get to a place where the threat cannot see you.
- Place cell phones on silent.
- Do not make any noise.
- Do not come out until you receive an Illini-Alert advising you it is safe.
- **FIGHT** – Action taken as a last resort to increase your odds of survival.
  - Active Threat: If you cannot run away safely or hide, be prepared to fight with anything available to increase your odds for survival.

## **Student Resources/Where to go for Help:**

### **We Care at Illinois**

- For sexual misconduct support, response and prevention visit: [wecare.illinois.edu](http://wecare.illinois.edu)

*Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: [http://oiir.illinois.edu/sites/prod/files/SexualMisconduct\\_ResourceGuide.pdf](http://oiir.illinois.edu/sites/prod/files/SexualMisconduct_ResourceGuide.pdf)*

### **Safety and Emergency**

University Police Department, Emergency, 9-911; Non-emergency, 217-333-8911

University Fire Department Emergency, 9-911

Crisis Line, 217-359-4141

Emergency Dean, 300 Turner Student Services Bldg., 610 E. John St., 217-333-0050

Counseling Center, 110 Student Services Bldg., 610 E. John St., 217-333-3704

McKinley Health Center, General Information, 217-333-2701

McKinley Mental Health Center, 1109 S. Lincoln, 217-333-2705

Dean of Students, 300 Turner Students Services Bldg, 610 E. John St., 217-333-0050

Local Sexual Assault Center, RACES, 217-384-4444

Women's Resources Center, 703 South Wright Street, 2nd Floor, 217-333-3137

Rape Crisis 24-hour Hotline, 217-384-4444

Suicide & Psychological Emergency, Suicide Prevention Team, 217-333-3704

SafeRides (free nighttime campus ride program), 217-265-RIDE (265-7433)

SafeWalks (free walking escort service by Student Patrol), 217-333-1216

### **Student Services and Advocacy**

Office of the Dean of Students, 300 Student Services Bldg., 610 E. John St., 217-333-0050

### **Classroom Support, Teaching Skills, and Instructional Strategies**

Center for Innovation in Teaching & Learning, 249 Armory Building, 217-333-1462

### **Counseling Services**

Counseling Center, 110 Student Services Bldg., 610 E. John St., 217-333-3704

McKinley Mental Health Center, 1109 S. Lincoln Ave., 217-333-2701

Psychological Services Center, 3<sup>rd</sup> Floor, 505 E. Green St., 217-333-0041

### **Disability Services**

Disability Resources and Educational Services (DRES), 1207 S. Oak St., 217-333-1970

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### **Lesbian, Gay, Bisexual, Transgender Resource Center**

LGTB Resource Center, 323 Illini Union, 1401 W. Green St., 217-244-8863

### **Veterans Services**

Veteran Student Support Services, Office of the Dean of Students, 610 E. John St., 217-333-0050

Center for Wounded Veterans in Higher Education, 908 W. Nevada St., 217-300-3515

### **General Study Skills Assistance**

Office of Minority Student Affairs, 130 Student Services Bldg., 610 E. John St, 217-333-0054

Office of Minority Student Affairs Tutoring Services, 701 S. Gregory Dr., Suite 1, 217-333-7547

Writer's Workshop, 251 Undergraduate Library, 1402 W. Gregory Dr., 217-333-8796

\*\*Additional academic assistance may be available through individual departments

### **Health Resources**

Health Education, McKinley Health Center, 1109 S. Lincoln Ave., 217-333-2701

Alcohol & Other Drug Office, 2<sup>nd</sup> Floor Counseling Center, 610 E. John St., 217-333-7557

Sexual Health Educator, McKinley Health Center, 1109 S. Lincoln Ave., 217-333-2714

Dial-A-Nurse, McKinley Health Center (24-hour), 1109 S. Lincoln Ave., 217-333-2700

Health Resource Center, McKinley Health Center, 1109 S. Lincoln Ave., 217-333-6000

Health Resource Center, Room 40 Illini Union, 1401 W. Green St., 217-244-5994

McKinley Health Center, General Information, 1109 S. Lincoln Ave., 217-333-2701

### **Sexual Harassment/Assault & Acts of Intolerance/Hate Crimes**

Office of the Dean of Students, 300 Students Services Bldg., 610 E. John St., 217-333-0050

### **The Office of Diversity, Equity and Access (ODEA):**

- For non-academic support visit: [diversity.illinois.edu](http://diversity.illinois.edu)
  - Discrimination & Harassment Prevention
  - Title IX
  - Accessibility & Accommodations
  - Inclusive Illinois