

IMMUNOBIOLOGY (BIOL 53700)

COURSE SYLLABUS

SPRING 2013

Instructor: Julia Kirshner
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Office hours: Mon 2:30-3:30pm
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TA: Mary Zheng
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Office hours: Tue 9:30-10:30am (and by appointment)
Office: HANS 234

Lectures: Tue/Thu 3:00 - 4:15pm, BCHM 105

Course website: <http://kirshner.bio.purdue.edu/BIOL537/BIOL537.html>

Reading: Janeway's Immunobiology (8th ed.; Murphy; ISBN-10: 0815342438)
An electronic version of the book available for purchase or for rent at Amazon Kindle store or at <http://store.vitalsource.com/show/978-1-1366-6521-9>.
Additional reading materials will be assigned throughout the semester.
Suggested reading: Case Studies in Immunology: A Clinical Companion (6th ed.; Geha)

COURSE OBJECTIVES:

This is an introductory immunology course for graduate students and senior-level undergraduates interested to learn why we don't die from a common cold and why we can't always give a kidney to our best friend. This course will define the role of the immune system in fighting infection, its potential to prevent cancer, and describe how through the use vaccines we can avoid disease. We will also discuss the other side of the immune system, the one causing problems such as autoimmunity, allergy, and transplant rejection.

COURSE GOALS:

Upon completion of this course you should be able to:

- Name and describe the principal organs, cells, and molecules of the immune system and their function
- Describe the process of immunity, including the regulatory controls of the immune system
- Predict the consequences of a deficiency in one particular component of the immune system
- Explain how abnormal immune function can cause disease

PREREQUISITES:

Required: BIOL 23000, 23100, or 27000 and BIOL 24000, 24100 or 28000
Recommended: BIOL 42000

POLICIES:

- You are expected to read the textbook and any additional assigned materials. Lectures will complement the material presented in the reading assignments. Anything discussed in class and the sections of the textbook covering corresponding material may appear on the exams.
- **Midterm exams** will be cumulative and will take place during the regularly scheduled lecture time. Make-up for midterm exams will be given only under *exceptional* circumstances. Only **documented** emergencies, death of a close relative, and religious holidays (disclosed no later than the 2nd week of the semester) will be considered excused absences and will qualify for a make-up. It is your responsibility to complete a make-up within one week of a missed exam.
- A **term paper** will be assigned at the first class and will be **due on April 11 by 3pm**. An electronic version should be submitted to SafeAssign on Blackboard Learn and a hard copy turned-in in class. For each 5 minutes the paper is late, 10 points will be taken off from the final score (with an exception of a documented emergency).
- A cumulative **final exam** will be given during the time period assigned by the registrar. An incomplete will be given for an excused absence from the final. Failing to reschedule the final exam in the appropriate time frame will result in the failing grade for the course. Excused absences include documented emergencies and scheduling conflicts as outlined here (http://www.purdue.edu/usp/acad_policies/exam_conflict.shtml).
- Full credit will be given only for correct answers; **partial credit** will be assigned at the discretion of the instructor.
- All exams will be closed book and closed notes; no study materials will be allowed at the exams. Please bring your Purdue ID to all exams.
- There will be **extra credit** opportunities and **group activities** throughout the semester. In addition to those, each lecture will have a "Question of the Day". Each correct answer will be worth 1 point and can be accumulated up to the maximum of 25 points. There will be **no** make-ups for the extra credit or in-class group activities regardless of the nature of the absence.
- In the event of a major campus emergency, course requirements, deadlines, and grading percentages (points) are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. The information about the changes in this course will be announced on the course webpage and via e-mail.
- **Electronic devices** will not be needed for this course and the use of any electronic device during exams including, but not limited to cell phones, iPods, calculators, computers, recording or transmitting devices will constitute a breach of academic integrity (see below) and may result in a failing grade.

EVALUATION:

Assignment	Points
Midterm exams (2)	200
Final exam	150
Term paper	150
Primary papers (5 out of 9)	50
TOTAL	550

GRADING: The final grades will be assigned according to the total number of points earned:

A+	for exceptional effort demonstrated throughout the semester (at the discretion of instructor)	C+	75.9-72
A	>92	C	71.9-68
A-	91.9-88	C-	67.9-64
B+	87.9-84	D+	63.9-60
B	83.9-80	D	59.9-55
B-	79.9-76	D-	54.9-50
		F	<50

RE-GRADES:

If you feel that there has been a mistake in the grading of your exam, submit a re-grade request **in writing** within 1 week of the exam, justifying the request for re-grade. Note that the entire exam will be re-graded which could result in either positive or negative change in the grade. This policy does not apply to errors in adding-up points on your exam.

ACADEMIC INTEGRITY:

Students are encouraged to discuss freely the principles and applications of the material presented throughout the course. However, all exams and other assignments must be done independently (i.e. you must submit your own work, not something which was a group effort). Academic dishonesty will not be tolerated in any form, including, but not limited to, cheating, fabrication, plagiarism, or attempts to carry out any of the above. Any of the offenses breaching the academic integrity standards will result in sanctions. The first offense will result in the grade of 0 for the assignment in question and the next assignment (including exams), the second offense will result in an F grade for the course and a notification of the Office of the Dean of Students (http://www.purdue.edu/univregs/pages/stu_conduct/stu_regulations.html). Please don't resort to cheating; if you are having trouble understanding the material, please talk to me, and I may be able to direct you to additional resources to assist in your studies.

Finally,

I hope you enjoy the course. If any time during the semester you have comments or suggestions, I want to hear them. Please, drop me a line or just stop by.