



BIOLOGY 350-002: IMMUNOLOGY

INSTRUCTOR:	Dr. John Yarotsky	EMAIL:	yarotsky@njit.edu
OFFICE:	340C Central King Bldg.	OFFICE HOURS:	By Appointment (Email)
COURSE SCHEDULE:	W & F: 1:00PM – 2:20PM CKB G08	COURSE WEBSITE:	https://canvas.njit.edu/

COURSE DESCRIPTION: The objective of this course is to facilitate an understanding of preliminary knowledge of the immune system in humans and other mammals. Students will be able to translate a basic understanding of the immune system and how that knowledge translates to further understanding medicine, research topics in cell biology, and broad topics in public health policy.

PREREQUISITES: R120-201, R120-202, BIOL 205 and BIOL 206 all with a grade of C or better.

REQUIRED TEXT: Kindt, Thomas. (2007) Immunology Sixth Edition. W.H. Freeman and Company, New York, New York. ISBN-13: 978-1-4292-0211-4

GRADING POLICY:

- There will be three Exams each worth 25% of the overall grade and weekly quizzes worth 25%.
- Weekly quizzes will be given to assess the material covered over that week.
- Three non-cumulative exams will be given with each exam having equal weight on the overall grade.
- The exams will be a mixture of short answer and multiple choice questions.
- All exams count equally and the lowest grade will not be dropped.
- Quizzes will be given in class on Mondays before the lecture. They will take approximately 10 minutes. If you are late you cannot take the quiz once they have been collected. The quiz is there to insure that you have kept up with the material so they will cover material from the previous week.
- Quizzes cannot be made up and must be completed in the time allotted.
- Exams can only be made up for valid reasons (see the University's policy regarding make up exams) and must be accompanied by valid documentation (Dr's note, hospital bill, etc.) and must be presented to the Office of the Dean of Student Affairs. Do not contact the instructor regarding missed quizzes or exams as the documents regarding absences are only to be brought to the Dean of Student Affairs. There are no extra credit assignments.
- Exams and quizzes will not be curved.

GRADE SCALE	
A	90-100
B+	85-89
B	80-84
C+	75-79
C	70-74
D	65-69
F	0-64

ACADEMIC INTEGRITY: The University's Code of Academic Integrity will be enforced in regard to exams and plagiarism. If the student is unfamiliar with the University's code please consult the website for clarification of violations and punishments: <http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>.

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COURSE SCHEDULE:

DATE	LECTURE TOPIC	
January 22	Introduction to Immunology and Course Requirements	
January 24	Chapter 1: Overview of the Immune System	
January 29	Chapter 2: Cells and Organs of the Immune System	
January 31	Chapter 3: Innate Immunity	
February 5	Chapter 4: Antigens and Antibodies	
February 7	Chapter 5: Organization and Expression of Immunoglobulin Genes	
February 12	Chapter 6: Antigen-Antibody Interactions	
February 14	Chapter 7: The Complement System	
February 19	EXAM 1	
February 21	Chapter 8: The MHC Complex and Antigen Presentation	
February 26	Chapter 9: T-Cell Receptor	
February 28	Chapter 10: T-Cell Maturation, Activation and Differentiation	
March 4	Chapter 11: B-Cell Maturation, Activation and Differentiation	
March 6	Chapter 12: Cytokines	
March 11	Chapter 13: Leukocyte Activation and Migration	
March 13	Chapter 14: Cell-Mediated Cytotoxic Responses	
Week 9: 03/18. & 20	MARCH 15-22: SPRING RECESS- SCHOOL CLOSED	
March 25	Chapter 15: Hypersensitivity Reactions	
March 27	EXAM 2	
April 1	Chapter 16: Tolerance and Autoimmunity	
April 3	Chapter 17: Transplant Immunology <i>Withdrawal Deadline 4/8</i>	
April 8	Chapter 18: Immune Responses to Infectious Diseases	
April 10	Good Friday – NO CLASSES – SCHOOL CLOSED	
April 15	Chapter 19: Vaccines	
April 17	Chapter 20: AIDS and other Immunodeficiencies	
April 22	Chapter 21: Cancer and the Immune System	
April 24	Chapter 22: Experimental designs	
April 29	Presentation on Advancements in the Cutting Edge Research	
May 1	EXAM 3	
FINAL EXAM WEEK: MAY 8-14, 2020		