

Spring 2025

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INSTRUCTOR:	John Yarotsky, PhD	PHONE:	973-642-7976
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LECTURES:	Tues & Thurs 1-2:30 Kupf 210		

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.

Техтвоокз:

KINDT, THOMAS. (2007) IMMUNOLOGY SIXTH EDITION. W.H. FREEMAN AND COMPANY, NEW YORK, NEW YORK. ISBN-13: 978-1-4292-0211-4



Course Syllabus

Spring 2025

BIOLOGY 350:Immunology

WEEK	DATES	ΤΟΡΙϹϚ
Week 1	Jan 21-23	Introduction to Immunology and Course Requirements Chapter 1: Overview of the Immune System
Week 2	Jan 28-30	Chapter 2: Cells and Organs of the Immune System Chapter 3: Innate Immunity
Week 3	Feb 4-6	Chapter 4: Antigens and Antibodies Chapter 5: Organization and Expression of Immunoglobin Genes
Week 4	Feb 11-13	Chapter 6: Antigen-Antibody Interactions Chapter 7: The Complement System
Week 5	Feb 18-20	Exam 1 Chapter 8: The MHC Complex and Antigen Presentation
Week 6	Feb 25-27	Chapter 9: T-Cell Receptor Chapter 10: T-Cell Maturation, Activation and Differentiation
Week 7	March 4-6	Chapter 11: B Cell Maturation, Activation and Differentiation Chapter 12: Cytokines
Week 8	March 11-13	Chapter 13: Leukocyte Activation and Migration Chapter 14: Cell-Mediated Cytotoxic Responses Tolerance,
Week 9	March 18-20	Spring Break-No class
Week 10	March 25-27	Chapter 15: Hypersensitivity Reactions Exam 2
Week 11	April 1-3	Chapter 16: Tolerance and Autoimmunity Chapter 17: Transplant Immunology
Week 12	April 8-10	Chapter 18: Immune Responses to Infectious Diseases Chapter 19: Vaccines
Week 13	April 15-17	Chapter 20: AIDS and other Immuno-deficiencies Chapter 21: Cancer and the Immune System
Week 14	April 22-24	Cancer Immunotherapy Immunotherapy Technologies
Week 15	April 29-May1 May 6	Advances in Cancer Exam 3





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BIOLOGY 350: Immunology

EXAMINATIONS:

❀ Your final letter grade is based on lecture exams, class attendance along with participation, and quizzes. The exams will each be worth 30% of your grade. The remaining 10% of your grade is based on attendance/class participation, and quizzes.

Exams will be multiple choice tests consisting of 50-60 questions.

B Extra credit is not an option.

ATTENDANCE POLICY: Attendance is mandatory. Participation in the class is also mandatory.

Grade Scale:

A=90-100 B+=85-89 B=80-84 C+=75-79 C=70-74 D=65-69 F=64 or lower

This course will strictly adhere to the <u>NJIT Honor Code</u>!! Both the lecture and the lab will have zero tolerance for violations to the NJIT's <u>University Code on Academic Integrity</u>!!