

Spring 2024

х.,		e	-	8. s.	 -			80 a -		 	-		- 22		. A.			-	 				-	×.,		- 10	е.		-		
х.	÷.	I		8	 -	200	-	886	8.0		-		-	20 A	÷.	ėbo	.	-	 20.0	-	-	-	-	20	20	-	е.	- 14	20		

INSTRUCTOR:	John Yarotsky, PhD	PHONE:	973-642-7976				
OFFICE:	СКВ 340С	EMAIL:	<u>yarotsky@njit.edu</u>				
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 2024

BIOLOGY 350:Immunology

WEEK	DATES	TOPICS
Week 1	Jan 16-18	Introduction to Immunology and Course Requirements Chapter 1: Overview of the Immune System
Week 2	Jan 23-25	Chapter 2: Cells and Organs of the Immune System Chapter 3: Innate Immunity
Week 3	Jan 30 Feb 1	Chapter 4: Antigens and Antibodies Chapter 5: Organization and Expression of Immunoglobin Genes
Week 4	Feb 6-8	Chapter 6: Antigen-Antibody Interactions Chapter 7: The Complement System
Week 5	Feb 13-15	Exam 1 Chapter 8: The MHC Complex and Antigen Presentation
Week 6	Feb 20-22	Chapter 9: T-Cell Receptor Chapter 10: T-Cell Maturation, Activation and Differentiation
Week 7	Feb 27 Feb 29	Chapter 11: B Cell Maturation, Activation and Differentiation Chapter 12: Cytokines
Week 8	March 5-7	Chapter 13: Leukocyte Activation and Migration Chapter 14: Cell-Mediated Cytotoxic Responses Tolerance,
Week 9	March 12-14	Spring Break-No class
Week 10	March 19-21	Chapter 15: Hypersensitivity Reactions Exam 2
Week 11	March 26-28	Chapter 16: Tolerance and Autoimmunity Chapter 17: Transplant Immunology
Week 12	April 2-4	Chapter 18: Immune Responses to Infectious Diseases Chapter 19: Vaccines
Week 13	April 9-11	Chapter 20: AIDS and other Immuno-deficiencies Chapter 21: Cancer and the Immune System
Week 14	April 16-18	Cancer Immunotherapy Immunotherapy Technologies
Week 15	April 23-25	Advances in Cancer Exam 3



Course Syllabus

Spring 2024

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.

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>!!