BIOLOGY 350-002: IMMUNOLOGY

INSTRUCTOR:	Dr. John Yarotsky	**EMAIL:**	yarotsky@njit.edu
OFFICE:	340C Central King Bldg.	**OFFICE HOURS:**	T: 12:00PM – 2:00PM
COURSE SCHEDULE:	M, R: 1:00PM – 2:25PM ✳ CKB 223	**COURSE WEBSITE:**	http://moodle.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: Kuby Immunology, 7th Edition © 2012 By Judy Owen; Jenni Punt; Sharon Stranford; W.H. Freeman ISBN-13: 978-142921919-8, ISBN-10: 1-42921919-X.

GRADING POLICY:

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

- ✷ There will be three Exams each worth 25% of the overall grade and weekly quizzes worth 25%.

- ✷ Weekly Moodle 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.).

- ✷ There are no extra credit assignments.

- ✷ Exams and quizzes will not be curved.

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 19	Introduction to Immunology and Course Requirements	
January 23	Chapter 1: Overview of the Immune System	
January 26	Chapter 2: Cells and Organs of the Immune System	
January 30	Chapter 3: Innate Immunity	
February 2	Chapter 4: Antigens and Antibodies	
February 6	Chapter 5: Organization and Expression of Immunoglobulin Genes	
February 9	Chapter 6: Antigen-Antibody Interactions	
February 13	Chapter 7: The Complement System	
February 16	**EXAM 1**	
February 20	Chapter 8: The MHC Complex and Antigen Presentation	
February 23	Chapter 9: T-Cell Receptor	
February 27	Chapter 10: T-Cell Maturation, Activation and Differentiation	
March 2	Chapter 11: B-Cell Maturation, Activation and Differentiation	
March 6	Chapter 12: Cytokines	
March 9	Chapter 13: Leukocyte Activation and Migration	
Week 9: 03/13. & 16	**MARCH 12-19: SPRING RECESS- SCHOOL CLOSED**	
March 20	Chapter 14: Cell-Mediated Cytotoxic Responses	
March 23	Chapter 15: Hypersensitivity Reactions	
March 27	**EXAM 2** *Withdrawal Deadline 3/27*	
March 30	Chapter 16: Tolerance and Autoimmunity	
April 3	Chapter 17: Transplant Immunology	
April 6	Chapter 18: Immune Responses to Infectious Diseases	
April 10	Chapter 19: Vaccines	
April 13	Chapter 20: AIDS and other Immunodeficiencies	
April 17	Chapter 21: Cancer and the Immune System	
April 20	Chapter 22: Experimental designs	
April 24	Presentation on Advancements in the Cutting Edge Research	
April 27	**EXAM 3**	
May 1	Review	
FINAL EXAM WEEK: MAY 5-11, 2017		

Updated: 01/30/17