

## **BIOL-GA 1011 Immunobiology**

### **Instructor:**

Dr. Nataliya Galifianakis

### **Course overview**

This course introduces students to the field of immunology providing a contemporary account of the immune mechanisms that human body uses to control exposure to microorganisms.

### **Pre-requisite:**

Bio Core I (BIO-GA 1001) or

Molecular and Cellular Biology II (BIOL-UA 22)

This course is not for students who have taken BIOL-UA 50

### **Textbook:**

Peter Parham. The Immune System. 5<sup>th</sup> Edition with InQuizitive.

### **Grading.**

Midterm –20%

Final – 20%

Assignments – 20%

Project – 20%

Discussion boards postings – 10%

Participation/Attendance– 10%

### **Topics:**

Basic Concepts in Immunology

Innate Immunity

Antibodies and B-Cells

Antigen Recognition and T-cells

Development of B-and T-Cells

T-Cell mediated immunity

Humoral immune responses

The mucosal immunity

Immunological memory and vaccination