EDO UNIVERSITY IYAMHO
DEPARTMENT OF MEDICAL LABORATORY SCIENCE

MLS 311: BASIC IMMUNOLOGY

Instructor: *Dr. Oladeinde Bankole Henry*, email-oladeinde.bankole@edouniversity.edu.ng
Lectures: Thursday, 1.00pm ï 3.00 pm, LT4, phone: (+234) 8053096120
Friday: 8.00 am-9.00 a.m LT4
Office hours: Monday, 8.00 am ï 9.00 am. Office:: New College Building, Room 38

General overview of lecture: The course is designed to give students the basic principles of immunology. The historical perspective of the evolution of the subject of immunology, the types, structure and functions of immune systems as well as the cells involved in the immune responses will be treated in this course.

.**Prerequisites:** Students should be familiar with the structure and function of a cell. Knowledge of structure and types of antibodies as well as the different types of reactions that could occur between antibodies and antigens is also required for good understanding of this course. Students should also be conversant with the infectious disease process.

Learning outcomes: At the completion of this course, students are expected to be able to:

i. give a detailed account of the evolution of immunology
ii. classify immunity, and describe the properties of each type of immunity
iii. list and discuss the development of cells involved in immune response
iv. discuss the steps involved in innate and adaptive immune responses.
v. discuss the cellular interaction in the expression and regulation of immunity response.

Assignments: We expect to have 5 individual homework assignments throughout the course in addition to a Mid-Term Test and a Final Exam. Home works are due at the beginning of the class on the due date. Home works are organized and structured as preparation for the midterm and final exam, and are meant to be a studying material for both exams..

Grading: We will assign 5% of this class grade to homework, 5% to class presentations, 20% for the mid-term test and 70% for the final exam. The Final exam is comprehensive.

Textbook: The recommended textbook for this class is as stated:
Title: *Essential Clinical Immunology*
Author/s: Zabriskie John
Publisher: Cambridge University Press
ISBN-13 978-0-521-51681-5

Title: Medical Microbiology, 26th Edition
Authors: Jawertz, Melnick and Aldelberg
Publisher: McGraw Hill
ISBN: ISBN: 978-0-07-181578-9

Title: *Advanced Compiler Design and Implementation*
Author: S. Muchnick,
Publisher: Morgan-Kaufmann Publishers
ISBN: 1-558600-320-4

Courseware: MLS 311- Basic Immunology (2 UNITS)

The following outlines the courseware for the course MLS 311, Basic Immunology

- The Historical background of Immunology.
- Classification of Immunity Innate Immunity.
- Development and structure of cells in the Immune system.
- Cellular interaction in the expression and regulation of immunity acquired.