DEPARTMENT OF BIOLOGY
MEDGAR EVERS COLLEGE of the CITY UNIVERSITY OF NEW YORK

SYLLABUS
BIO 323 *** PATHOPHYSIOLOGY

INSTRUCTOR: Dr. M. Hassan Office: C316 telephone # (718) 270-6209
Office hours: Fridays: 12:30 - 1:30pm; 5:00 - 6:00pm; other days by appointment.

TEXTBOOKS: Essentials of Pathophysiology: concepts and applications for Health Care Professionals. Authors: Thomas J. Nowak and A Gordon Handford 3rd edition 2004. Publisher: WCB McGraw Hill.

COURSE DESCRIPTION:

Biology 323 is a one semester, 3 credit lecture course that meets 3 hours per week. It serves the interests of Nursing and Paramedical students. The students are exposed to the knowledge of the basic mechanism of the diseases affecting the adults and the children. Fundamental concepts of the disease process and its outcome will be discussed. The discussions will include topics such as Trauma, Stress, Genetic, Infectious, Neoplastic, Immunological, Neurological, Cardiovascular, Pulmonary, Digestive and the Urinary diseases.

OBJECTIVES:

1. Study the pathological mechanisms underlying diseased states with respect to the body's various systems.
2. Describe the manifestations of the diseases in response to these mechanisms.
3. Interpret the response of the cells, the tissues, organs and the whole body as a result of the onset of the disease conditions.
4. Contrast similarities and differences of the body in response to specific diseases.
5. Utilize the knowledge of the course contents when formulating the nursing diagnoses and writing the plans of care for the sick.

COURSE REQUIREMENTS:

1. The course is intended for Nursing. Premedical and Paramedical students.
2. Attendance is required.
3. There will be 2 or 3 examinations of multiple choice type.
4. You will be required to take 4 essay type quizzes of 15 minutes duration in which you will be required to detail your plan of action to a real acute or chronic disease situation. Points will be deducted for spelling and grammatical errors.
5. You are encouraged to ask questions during and after the class. For additional help please see the instructor during the office hours. Office hours are listed at the end of the syllabus.
6. Tutorial services as well as computer facilities are available. Please contact the instructor or Biology Department Chair for the help.

GRADING:

MID TERM EXAM:	First hourly exam. Multiple Choice Type, 40% of the grade
Optional:	Second hourly Exam. Multiple Choice Type
FINAL EXAM:	2-hour exam. Multiple Choice Type, 40% of the grade If yon miss the Final Exam, you will receive an "ABS" grade:

Quizzes will be given unannounced. Short essay types answers required. 15 minutes allowed for the answers. Four quizzes will be given during the semester. They will make up 20% of the grade.

LECTURE TOPICS

Topic 1 Chapters 1, 2, 4, 24	Trauma: Tissue damage, Inflammation and Healing. Shock, Multiple Organ Dysfunction Syndrome.	p12-20; 29-31; 41-48 p680-699
Topic 2 Chapter	Genetic Diseases: Genes & Inheritance Genetic Diseases cont'd: Common genetic diseases and genetic counseling.	Class notes Class notes
Topic 3 Chapter 6	Neoplasm: Biology of cancer. Genetic and Environmental factors Neoplastic Diseases: Tumor invasion and metastasis. Cancer in children	p130-166
Topic 4 Chapter	Infectious Diseases: Microorganisms & Humans. Viral, Bacterial, Fungal and Protozoan diseases. Diseases caused by multicellular organisms. Role of Vectors in infectious diseases	Class notes
Topic 5 Chapter 5	lmmunological Disorders: Immunity & Inflammation Diseases of the Immune System	p82-129 p122-126
Topic 6 Chapter 20	Nervous System: Structures and Function of the Central Nervous System Diseases of the neurologic System	p533-587
Topic 7 Chapter 17	The Endocrine System: Hormones and hormonal regulations Diseases of the Endocrine System	p448-488

MID TERM EXAM: Multiple choice type

Topic 8	Cardiovascular System: Structure and Function	p215-292
Chapters	of the Heart, Arteries, Veins, Capillaries.	
9, 10	Structure of Blood	
Chapters	Diseases of the Blood	p167-200
7, 8, 10	Diseases of the Heart and the Blood Vessels	p231-271
Topic 9	Respiratory/Pulmonary System: Structure	p307-340
Chapter	& Function.	
12	Diseases of the Respiratory System	
Topic 10	The Digestive System: Structure and Function	p342-396
Chapter	including the Accessory Glands.	
13, 14	Liver & Pancreas	
	Diseases of the Digestive System including	p370-396
	the Liver & Pancreas	
Topic 11	The Urinary/Renal System: Structure and	p398-420
Chapter	Function.	
15, 16	Diseases of the Urinary System	p421-445
	Electrolytes Imbalances	

FINAL EXAM: Multiple choice type