COURSE DESCRIPTION

This course examines the normal physical structures and functions of the pulmonary, cardiovascular, lymphatic and immune systems, genetics and their clinical correlations.

LEARNING OBJECTIVES

The student will learn the structure and function of the human body from the western viewpoint. A working knowledge of the body systems and their interrelationship to form a functioning organism will be attained over the course series.

COURSE PREREQUISITIES

Anatomy & Physiology I

REQUIRED TEXTS


RECOMMENDED TEXTS

*Gray's Anatomy*, Warwick and Williams,

COURSE REQUIREMENTS

Out-of-Class Work
To successfully complete the program, students need to plan studying a minimum of 2 hours out-of-class for each academic in-class hour; and half an hour out-of-class for each hour of clinical training.

10 Points -Class Attendance (only 2 absences permitted)
10 Points -Coloring Book
40 Points -Mid-Term Examination
40 Points -Final Examination
100 Points -Total.

GRADING SCALE: 100-90% A, 89-80% B, 79-70% C, 69% and below F

SPECIAL NOTES

Professionalism and Full and Prompt Attendance: To pass any course (separate from academic performance) all students must meet requirements for professionalism in coursework. Professionalism includes full and prompt attendance: students who miss more than 2 class meetings in a 10-week course or 1 class meeting in a 7-week course will earn an F in that course. Additionally, students who arrive more than 15 minutes to class or leave class before it ends will be given ½ absence towards attendance. NOTE: Students who leave and return to class late from a
break or leave during the class (especially if this is repeated) or who disrupt the class in other ways may earn an F in that class and/or be referred to the Academic Dean for professionalism.

CLASS ONE (The syllabus is subject to change at the discretion of the instructor.)

**Pulmonary Anatomy:**
The Upper Airway
Bronchial Tree
Respiratory Membrane

Assignment: Hole, Chapter 19
Kapit: Color Pages For Respiratory, Cardiovascular, Blood, Lymphatic, & Immune Systems

CLASS TWO

**Pulmonary Physiology**
1. Respiratory Control
2. Breathing Mechanism
3. Gaseous Exchange And Transport

Assignment: Hole Chapter 19

CLASS THREE

1. **Cardiovascular System:**
   A. Structure Of The Heart
   B. Cardiac Function; Hemodynamic And Electrical
   Basic ECG,

Assignment: Hole, Chapter 15
Kapit Pgs 101-120

CLASS FOUR

1. **Cardiovascular System:**
   A. Vascular Anatomy
   B. Capillary Exchange
   C. Factors Affecting Blood Pressure

Assignment: Hole Chapter 15

CLASS FIVE

1. **Cardiovascular system**
   A. Circulation and distribution
   B. Vessel; nomenclature and anatomy.

Assignment: Hole, Chapter 15

CLASS SIX

MIDTERM EXAMINATION

CLASS SEVEN

1. **Blood**
a. Hgb & Hct
EMPEROR'S COLLEGE
MTOM COURSE SYLLABUS
ANATOMY & PHYSIOLOGY II

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3 Units
30 Hours

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b. Cells and derivation
c. plasma proteins
d. hemostasis
e. blood type, ABO & Rh

Assignment: Hole, Chapter 14

CLASS EIGHT
1. Lymphatic System
a. function
b. lymph formation and composition
d. lymph movement
e. node structure and location
f. thymus and spleen
g. reticuloendothelial system

Assignment: Hole, Chapter 16

CLASS NINE
1. Immune System
a. nonspecific defenses
b. inflammation
c. phagocytosis
d. humoral system
e. cell mediated immunity

2. Immunity and immunoglobulins
a. types of immunity
b. allergy
c. autoimmunity

Assignment: Hole, Chapter 16

CLASS TEN
1. Genetics
a. genes and chromosomes
b. nucleic acids
c. DNA & RNA
d. meiosis
e. dominant and recessive
f. multigenetic traits
g. pleiotrophy
h. sex-linked traits
i. common mechanisms of pathology

Assignment: Hole, Chapter 24

CLASS ELEVEN
Final

REFERENCE MATERIAL

FACULTY INFO
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ANATOMY & PHYSIOLOGY II

Kim, Kyung

Fall 2019

Please check with instructor during class to get updated contact info.