

**EMPEROR'S COLLEGE**  
**MTOM COURSE SYLLABUS**  
**ANATOMY & PHYSIOLOGY II**

---

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 PREREQUISITES

Anatomy & Physiology I

---

REQUIRED TEXTS

**Human Anatomy and Physiology, 14th edition, Hole, Brown, Dubuque, 2016**  
**Kapit, The Anatomy Coloring Book, 3rd edition, Cummings, Boston, 2002**  
**Atlas of Human Anatomy, Netter, Ciba-Geigy Corporation, summit, New Jersey, 1989.**

---

RECOMMENDED TEXTS

Textbook of Medical Physiology, 9th edition, Guyton, Saunders, Philadelphia, 2000  
Principles of Human Anatomy, 2nd edition, Tortora, Harper and Row, New York, 1980.  
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

**EMPEROR'S COLLEGE**  
**MTOM COURSE SYLLABUS**  
**ANATOMY & PHYSIOLOGY II**

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

- 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

Course  
Code **WS206**  
3 Units  
30 Hours

**EMPEROR'S COLLEGE**  
**MTOM COURSE SYLLABUS**  
**ANATOMY & PHYSIOLOGY II**

***Kim, Kyung***  
*Fall 2019*

---

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