

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

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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.

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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**

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CLASS TWO

**Pulmonary Physiology**

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

**Assignment: Hole Chapter 19**

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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**

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CLASS FOUR

**1. Cardiovascular System:**

A. Vascular Anatomy  
B. Capillary Exchange  
C. Factors Affecting Blood Pressure

**Assignment: Hole Chapter 15**

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CLASS FIVE

**1. Cardiovascular system**

A. Circulation and distribution  
B. Vessel; nomenclature and anatomy.

**Assignment: Hole, Chapter 15**

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CLASS SIX

**MIDTERM EXAMINATION**

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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**

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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**

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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**

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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**

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CLASS ELEVEN

**Final**

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REFERENCE MATERIAL

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FACULTY INFO

Course  
Code **WS206**  
**3 Units**  
**30 Hours**

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***Redmond, Michael***  
*Winter 2019*

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Redmond, Michael

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

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Michael Redmond has taught Western medicine courses to TCM students for many years. His previous clinical experiences include trauma, intensive care, anesthesia, and home health. Currently Redmond teaches several courses in the MTOM Program including Biology, Chemistry, Biochemistry, Western Physical Assessment, Anatomy and Physiology and Western Medical Terminology among others.