

COURSE DESCRIPTION

Pathophysiology is a four-course series that presents the fundamentals of biophysiological processes as they relate to the development of diseases and their manifestations.

Pathophysiology II covers the study of the etiology, pathologic mechanisms, and sequelae of disease processes involving the following Systemic and Organ systems:

1. Circulatory / Cardiovascular Disease and Hematology
2. Respiratory Function and Pulmonary Disease
3. Renal Disease [incl. Acid/Base and Electrolytes]

LEARNING OBJECTIVES

Upon completion of this course the student will be able to:

- recognize common disorders of the circulatory, respiratory and renal systems
- explain major disease mechanisms of the above systems
- describe the pathologic changes of the above disorders

COURSE PREREQUISITIES

Pathophysiology I

REQUIRED TEXTS

Grossman, Sheila C. and Porth, Carol Mattson (2014). ***Porth's pathophysiology: concepts of altered health states***. Wolters Kluwer Health/Lippincott Williams & Wilkins, 9th edition. ISBN-13: 978-1451146004

RECOMMENDED TEXTS

none

COURSE REQUIREMENTS

Module 1 exam = 50%
Module 2 exam = 50%

Classroom lectures represent the instructor's emphasis and focus on certain aspects of the course material. The student is responsible for the assigned readings.

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

SPECIAL NOTES

No texting or phone use permitted in class. No video recording is permitted under any circumstances.

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.

**EMPEROR'S COLLEGE
MTOM COURSE SYLLABUS
PATHOPHYSIOLOGY II**

CLASS ONE (The syllabus is subject to change at the discretion of the instructor.)
The circulatory system – Chapter 29

CLASS TWO
Alterations in blood flow – Chapter 30

CLASS THREE
Alterations in blood pressure – Chapter 31

CLASS FOUR
Coronary heart disease / heart failure and circulatory shock – Chapter 32/34

CLASS FIVE
Disorders of the cardiac conduction – Chapter 33

**CLASS SIX
MODULE 1 EXAMINATION**

CLASS SEVEN
Disorders of ventilation and gas exchange – Chapter 37

CLASS EIGHT
Disorders of renal function – Chapter 41

CLASS NINE
Disorders of fluid & electrolyte balance – Chapter 39

CLASS TEN
Disorders of acid-base balance – Chapter 40

**CLASS ELEVEN
MODULE 2 EXAMINATION**

REFERENCE MATERIAL
will be provided as necessary

FACULTY INFO

Please contact Dr. Downie with questions at docdownie.emperors@gmail.com

Check for Course notes, materials and Course Manual links at EmperorsWesternScience.wordpress.com