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 I is prerequisite to the remaining three courses in this series and introduces instruction in the fields of microbiology, psychopathology and epidemiology.

Pathophysiology I introduces the fundamentals of disease processes as they relate to cellular dynamics, inflammation and repair, fluid and electrolyte balance, acid/base and blood gas regulation, hemodynamics, and immunity. This material is then summarized into clinical relevancy through the consideration of the related symptoms.

LEARNING OBJECTIVES

**Course Objective I**: To develop a physiological understanding of disease processes.

**Course Objective II**: To develop an understanding of disease symptomatology and recognition.

COURSE PREREQUISITIES

Anatomy & Physiology I-IV, Biology, Biochemistry, Western Medical Terminology

REQUIRED TEXTS


COURSE INSTRUCTOR WILL INTRODUCE THE COURSE CONTENT AND STUDY MATERIAL, INCLUDING POWER POINT PRESENTATIONS, AND COURSE OBLIGATIONS DURING WEEK ONE OF CLASS.

RECOMMENDED TEXTS

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.

50% = Mid-Term Examination

50% = Final Examination

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

**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
EMPEROR’S COLLEGE
MTOM COURSE SYLLABUS
PATHOPHYSIOLOGY I

Attendance: Students who miss more than 2 class meetings in a 10-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 marked tardy. Two tardies equal one absence. 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 be referred to the Academic Dean for professionalism.

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

Genetic disorders

CLASS TWO
Cellular adaptation, injury, death, wound healing

CLASS THREE
Neoplasia, Hemostasis

CLASS FOUR
Alterations in red cells

CLASS FIVE
Mid-term Examination

Alterations in red cells (continued)

CLASS SIX
Disorders of white cells & lymphoid tissues.
Infectious diseases

CLASS SEVEN
Infectious diseases (continued)
Immunity

CLASS EIGHT
Immunity (continued)
Alterations in immune response

CLASS NINE
Acquired immunodeficiency syndrome

CLASS TEN
Alterations in skin function

CLASS ELEVEN
Final Examination

REFERENCE MATERIAL

FACULTY INFO

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

derekpecom@gmail.com