



KING SAUD UNIVERSITY
College of Applied Medical Sciences
General Pathophysiology (CLS 323)
2nd Semester 2022-2023

Credit Hours: 3

Prerequisites: PSL 224

Classroom: G18

Days and hours of meetings: Sunday 8:00 – 9:05/ 9:15 – 10:20 / 10:30 – 11:35 AM

Course Coordinator: Dr. Jawaher Al Sughayyir

Course Instructor(s): DR. IRENE ROCO **Email:** iroco@ksu.edu.sa

Course Description:

This course focuses on the pathophysiology of common disease conditions affecting human beings across the lifespan. Content builds on basic anatomy and physiology, microbiology, and chemistry content obtained from earlier courses. The pathophysiologic bases of common human health alterations and associated clinical manifestations are discussed.

Course Main Objective

The objective of this course is to provide students with a basic understanding of factors that contribute to the occurrence of various diseases and how those diseases may be treated by clinical professionals. Students will learn how to recognize the signs and symptoms of diseases that may be found in a health record.

Instructional Methods:

Didactic Discussion, Case Study

Required Texts:

Pathophysiology: Concepts of Human Disease, 1st Edition (2018)

Author(s): Sorenson, Matthew | Quinn, Laretta | Klein, Diane
Textbook ISBN-13:9780133414783

Goals for Student Learning:

At the end of the course, the students will be able to:

1. Classify implications of therapeutic interventions for diseases and conditions.
2. Distinguish environmental factors, physical, psychosocial, and cognitive characteristics of various diseases and conditions.
3. Compare and Contrast clinical manifestations of selected disease processes and health problems.
4. Apply principles of normal anatomy and physiology of human body systems to the pathophysiologic processes of common health problems
5. Demonstrate an understanding of the mechanisms of diseases, the diagnosis of diseases, and the treatment of diseases.

Course Requirements:

1. Quizzes (15%):

Two quizzes will be given on scheduled weeks during the semester and will cover content that has been taught in class. **NO make-up for missed quizzes.** If a student is absent for a quiz, a grade of zero will be recorded.

2. Exams (70%): Midterm Exam =30%; Final Exam=40%

Examinations will be given at scheduled class times during the semester. Exam content will be based upon material addressed in the assigned text, assigned readings, class assignments and in-class content.

3. Case Study (15 %):

One Case Study will be given on Scheduled time via blackboard, and will be graded on blackboard. **No make-up for missed submission.**

Examination	Total Grade	Contents	Date
Midterm Exam	30		
Quizzes	20		
Case study	10		
Final Exam	40	To be assigned	As Scheduled

Attendance:

Students are expected to attend every class. Students are responsible for all announcements and any content covered in each class

Classroom behavior:

This class will be conducted in an atmosphere of mutual respect.

General Rules

- Students are required to be **present and punctual** every day. As per KSU rules and regulations, you are required **to attend at least 75 %** of the classrooms in order to enter the final exam. Attendance will be calculated from the first week of the semester regardless of the day of enrollment in the course.
- As per KSU rules and regulations, **sick leaves** (out of KSU facilities) will not be accepted unless being authenticated by KSU.
- Students are **responsible for any missed class**, in term of class content, homework, assignments, and exams.
- **No makeup for Missed quizzes**
- **Missed Exams** or final exams, however, may be taken in accordance with KSU policy.
- **Cheating or plagiarism** on tests or assignments is cause for formal disciplinary action.
- Cell phones should be on **silent mode** in class.

Week No.	Date	Topic	Notes
Week 1	Dec. 4 – 8, 2022	Introduction Syllabus Discussion	
Week 2	Dec. 11 – 15, 2022	Cellular Adaptation	
Week 3	Dec. 18 – 22, 2022 (Dec. 18 – Long weekend)	Hematological System disorders	
Week 4	Dec. 25 – 29, 2022	Pathophysiology of cardiovascular System part-1: rheumatic heart disease, cardiac ischemia, cardiac arrhythmia	Quiz 1
Week 5	Jan 1 – 5, 2023	Pathophysiology of Cardiovascular System part-2: vascular diseases, blood pressure	
Week 6	Jan 8 – 12, 2023	MIDTERM EXAM Content from Week 1 – Week 5	
Week 7	Jan 15 – 19, 2023 (Jan 15-16 Long weekend)	Pathophysiology of select Respiratory System disorders: pneumonia, tuberculosis, asthma, COPD	
Week 8	Jan 22 – 26, 2023	Pathophysiology of select Digestive System disorders: gastroesophageal reflux disease, dysphagia, gastritis, <i>H. pylori</i> infection, hepatitis	Case Study Submission Due date
Week 9	Jan 29 – Feb. 2, 2023	Pathophysiology of select Renal System disorders: glomerulonephritis, urinary tract infection, renal calculi, renal failure	Quiz 2
Week 10	Feb. 5 - 9, 2023	Neoplasia	
Week 11	Feb. 12 - 16, 2023	Pathophysiology of common endocrine diseases	