

BME108e Physiology and Infectious Diseases

Level: 1

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

E-Learning: BLENDED - Learning is done MAINLY online using interactive study materials in Canvas. Students receive guidance and support from online instructors via discussion forums and emails. This is supplemented with SOME face-to-face sessions. If the course has an exam component, this will be administered on-campus.

Synopsis:

BME108 continues from BME107 and presents the rest of the body systems, particularly the immunological, nervous digestive and excretory systems. Attention is given to the organization of the human body at both the macroscopic and microscopic levels, and to the integration of physiological components. The course will also introduce the agents that cause disease, the body's response to the disease, disease transmission and the strategies to prevent the spread of disease.

The Laboratory session is on Trauma First Response training (Part 2). Students who successfully complete Parts 1 and 2 will be awarded US NAEMT certification.

Topics:

- Common infectious diseases and immunology
- Infectious diseases: mode of transmission and prevention strategy
- Nervous System
- Special Senses
- Digestive System
- Kidney System

Textbooks:

VANPUTTE: SEELEY'S ESSENTIALS OF ANATOMY & PHYSIOLOGY (etextbook)
(ISBN:9781260162851) 10th McGraw
ISBN-13: 9781260288728

Learning Outcome:

- Explain and illustrate the major systems in the human body (e.g. nervous, digestive and kidney systems)
- Define the basic organisms in infectious diseases and the common mode of transmission.
- Discuss the prevention and control of infectious diseases.
- Demonstrate the practical aspects related to anatomy and physiology
- Determine the mode of transmission of infectious diseases
- Predict the common medical conditions to the failing of these human physiological systems

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-CLASS QUIZ 1	2
	PRE-CLASS QUIZ 2	2
	PRE-CLASS QUIZ 3	2
	QUIZ 1	12
	QUIZ 2	12
Overall Examinable Components	Written Exam	70
Total		100