

PHSF 101/ PHY 103 and PHSF 112 / PHY 113 : Human Structure and Function I& II

The field of medical science and medical education has accumulated huge amounts of information about human systems biology including anatomy, physiology and molecular medicine (biochemistry, immunology, microbiology etc.). This course will concentrate on knowledge (factual content, understanding processes and concepts), applied and critical cognitive skills (problem based learning, situated and experiential learning). The course will be an introduction to anatomy and human systems physiology. It is expected that students will develop a broad, general understanding of the principles and concepts of human physiology and understand the relationship of structure to function. Students will recognize that structures permit some functions while, at the same time limit others. At a content/factual level, students will have an understanding that certain molecules (for example, enzymes, amino acids, nucleic acids and ATP) are ubiquitous. Students will gain an understanding of homeostasis in physiological systems; they will recognize the checks and balances that exist in living processes.

Credits 4

Prerequisites

None