BIOS 1022 INTRODUCTION TO HUMAN BIOLOGY

Credit Points 10

Legacy Code 300361

Coordinator Srinivas Nammi (https://directory.westernsydney.edu.au/search/name/Srinivas Nammi/)

Description This subject gives a basic understanding of the human body and introduces the scientific and medical terminology used for anatomy, physiology and biochemistry. It deals with gross structure and microscopic structure of the human body. It also examines microbial organisms, their classification, how they differ from eukaryotic cells and how our body defends against them. Where appropriate, examples of functional diseases will be discussed.

School Science

Discipline Human Biology

Student Contribution Band HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 1 subject

Equivalent Subjects LGYA 7033 - Human Medical Sciences 1 LGYA 5170 - Physical and Biological Sciences 1 LGYB 7586 - Human Biology 1 BIOS 1023 - Introduction to Human Biology (WSTC)

Incompatible Subjects NATS 1013 - Introduction to Anatomy BIOS 1025 - Introduction to Physiology

Learning Outcomes

On successful completion of this subject, students should be able to:

1. Use the language of anatomy and physiology to accurately describe location of organs and movement of the body
2. Describe the organization of the human body
3. Name the location of the major body cavities, their organs and the general function of these organs
4. Define the structure and function of the typical cell and its organelles
5. Describe the structure and function of different tissue types and organs
6. Explain the basic anatomy and physiology of the major body systems including cardiovascular, musculoskeletal, respiratory, nervous, urogenital and immune systems
7. Describe the basic pathophysiology of major diseases affecting the human body systems including dementia, coronary heart disease, diabetes, cancer, asthma, osteoporosis and infectious diseases

Subject Content

Anatomical terminology
Basic cell biology, histology and biochemistry
Location and function of major organ systems and tissues with emphasis on the cardiovascular, musculoskeletal, respiratory, nervous, urogenital and immune systems
Basic introduction to the pathophysiology of common human diseases such as dementia, coronary heart disease, diabetes, cancer, asthma, osteoporosis, and infectious diseases

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task
Pre-workshop Quiz and Workshop Participation	5 Workbook quizzes, and participation at 5 workshops	25	N	Individual
Mid-Session Test	1 Hour	20	N	Individual
Final Examination	2 hours	55	N	Individual

Summer

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task
Pre-workshop Quiz and Workshop Participation	3 Workbook quizzes, and participation at 3 workshops	40	N	Individual
Final Examination	2 hours for answering multiple choice questions in the Final Examination	60	N	Individual

Prescribed Texts

- Gerald J. Tortora, & Bryan Derrickson (2015). Introduction to the Human Body: The essentials of Anatomy and Physiology, 10th Edition, Hoboken, NJ: Wiley.

Teaching Periods