

Course Outline (Higher Education)

School:	School of Health and Life Sciences
Course Title:	ANATOMICAL AND PHYSIOLOGICAL BASES OF THE HUMAN BODY 2
Course ID:	EXSCI1012
Credit Points:	15.00
Prerequisite(s):	(EXSCI1011)
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED Code:	10913

Description of the Course :

This course completes the introduction to the anatomical and physiological structures and functions of the human body using a systems approach. This course will complement and extend student understandings of physiological mechanisms responsible for maintenance of homeostasis and health. Specifically it explores the structures and functions of the Endocrine system, the Autonomic Nervous system, Special senses, Gastrointestinal / Digestive system (Metabolism and Nutrition), Immune/Lymphatic system, Urinary/Fluid & Electrolytes system, and Reproductive systems. The content is designed to assist students in understanding the interrelationship between structure and function of the human body to health and well-being.

Grade Scheme: Graded (HD, D, C, etc.)

Program Level:

AQF Level of Program						
	5	6	7	8	9	10
Level						
Introductory			✓			
Intermediate						
Advanced						

Learning Outcomes:

Knowledge:

- K1.** Demonstrate an understanding of homeostatic mechanisms involved in fluid, electrolyte and acid-base balance;
- K2.** Identify and describe the anatomy of the Endocrine system, the Autonomic Nervous system, Special senses, Gastrointestinal / Digestive system (Metabolism and Nutrition), Immune system, Urinary system, and Reproductive systems of the human body;
- K3.** Understand and discuss the physiology of the Endocrine system, the Autonomic Nervous system, Special senses, Gastrointestinal / Digestive system (Metabolism and Nutrition), Immune system, Urinary system, and Reproductive systems of the human body under normal conditions and in regard to selected pathologies;

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K4. Demonstrate an understanding of protein synthesis and genetics.

Skills:

- S1.** Demonstrate a working knowledge of the structure and function of the Endocrine system, the Autonomic Nervous system, Special senses, Gastrointestinal / Digestive system (Metabolism and Nutrition), Immune system, Urinary system, and Reproductive systems of the human body;
- S2.** Develop a capacity to administer, interpret and analyse a range of tests of physiological function;
- S3.** Develop skills in reading and interpreting physiological literature.

Application of knowledge and skills:

- A1.** Outline the relationship of anatomical structures and physiological functions of cellular, tissue and specific organ-systems (Endocrine, Autonomic Nervous System, Special senses, Gastrointestinal system/Digestive system, (Metabolism and Nutrition, Immune system, Urinary system, and reproductive systems) in the human body to health and well-being.
- A2.** Account for the complexity and diversity of structure across body systems.

Course Content:

Topics may include:

- Human Anatomy of the Endocrine system, the Autonomic Nervous system, Special senses, Gastrointestinal / Digestive system (Metabolism and Nutrition), Immune system, Urinary system, and Reproductive systems of the human body.
- Structural Parameters and anatomical points of references for health assessments of the Endocrine system, the Autonomic Nervous system, Special senses, Gastrointestinal / Digestive system (Metabolism and Nutrition), Immune system, Urinary system, and Reproductive systems of the human body.
- Human Physiology of the Endocrine system, the Autonomic Nervous system, Special senses, Gastrointestinal / Digestive system (Metabolism and Nutrition), Immune system, Urinary system, and Reproductive systems of the human body.
- The interrelationship of organ-systems to the maintenance of organism health and homeostasis
 - Regulation and integration systems: Autonomic nervous system, Special senses, Endocrine system,
 - Maintenance systems: The Digestive system, the Urinary System and the Reproductive system.
- Measures of function of the Endocrine system, the Autonomic Nervous system, Special senses, Gastrointestinal / Digestive system (Metabolism and Nutrition), Immune system, Urinary system, and Reproductive systems of the human body.
- The role of a homeostatic mechanisms involved in fluid, electrolyte and acid-base balance.

Values and Graduate Attributes:

Values:

- V1.** Recognise the relationship of structure and function of all systems in the human body to health and well-being;
- V2.** Develop an appreciation of an observational and evidence based approach to health and well being.

Graduate Attributes:

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Attribute	Brief Description	Focus
Continuous Learning	Will be equipped with skills, motivation and confidence to engage in continuous learning to meet personal, professional and vocational challenges	Medium
Self Reliance	Will possess the confidence, capability, assurance, independence and enterprise to enable them to fulfil their personal and career aspirations	Medium
Engaged Citizenship	Will add to the productive capacity of the economy and be in demand and attuned to engage with contemporary social and cultural issues and aspire to make meaningful contributions to local, national and global communities	Low
Social Responsibility	Will be aware of generally accepted norms of ethical behaviour and be encouraged to act in a socially responsible manner both in the work place and other settings	Low

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1, K2, K3, K4, S1, S2, S3, A1, A2	Development of knowledge through learning activities	1.Laboratory Manual Workbook 2. Practical Laboratory Assessment	1. S/U 2. 30-50%
K1, K2, K3, K4, S1, A1, A2	Demonstration of knowledge of theoretical and practical concepts explored throughout the course	1.Mid-semester test 2.Final Theory Examination	50-70%

Adopted Reference Style:

APA