

# Unit Outline (Higher Education)

<b>Institute / School:</b>	Institute of Health and Wellbeing
<b>Unit Title:</b>	ANATOMY & PHYSIOLOGY FOR HEALTH PROFESSIONALS 1
<b>Unit ID:</b>	HEALT1111
<b>Credit Points:</b>	15.00
<b>Prerequisite(s):</b>	Nil
<b>Co-requisite(s):</b>	Nil
<b>Exclusion(s):</b>	Nil
<b>ASCED:</b>	010913

## Description of the Unit:

This unit is one of two units that provide foundational knowledge of human anatomy and physiology. In this unit, the biological basis of human health and the working of the human body will be explored. The major themes of study relate to organisation of the body and explores anatomy and physiology from cells to tissues to organ systems. The unit examines, support and movement, and human physiological processes and their integration and control with particular focus on the maintenance of normal body function.

The unit encourages students to demonstrate an application of biological science knowledge. An integrated whole body approach provides inter-professional learning opportunities and allows scrutiny of structural and physiological changes across the lifespan. This unit is open to all health professions for inter-professional learning.

Topics include organisation of the human body from chemical and cellular basics to body systems; the maintenance of homeostasis; the structure and function of the musculoskeletal system; the structure and the major integrative functions of the nervous, cardiovascular, respiratory and reproductive systems.

**Grade Scheme:** Graded (HD, D, C, P, MF, F, XF)

## Work Experience:

Not wholly work experience: Student is not undertaking work experience in industry or student is undertaking work experience in industry where learning and performance is directed by the provider.

**Placement Component:** No

**Supplementary Assessment:** Yes

Where supplementary assessment is available a student must have failed overall in the Unit but gained a final mark of 45 per cent or above, has completed all major assessment tasks (including all sub-components where a task has multiple parts) as specified in the Unit Description and is not eligible for any other form of supplementary assessment

**Course Level:**

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory			✓			
Intermediate						
Advanced						

**Learning Outcomes:**

On successful completion of this unit the students are expected to be able to:

**Knowledge:**

- K1.** Describe basic chemical composition, functions and organisation of the human body and how they contribute to homeostasis under normal conditions;
- K2.** Identify and describe major anatomical structures of specific body systems including the Musculoskeletal, Central and Peripheral Nervous, Circulatory, Respiratory and Reproductive systems of the human body; and
- K3.** Explain physiological processes of specific body systems including the Musculoskeletal, Central and Peripheral Nervous, Circulatory, Respiratory and Reproductive systems of the human body.

**Skills:**

- S1.** Relate the concept of homeostasis to physiological processes;
- S2.** Apply underlying physiological principles to the care of a client in a practical scenario; and
- S3.** Collate and evaluate clinical data relevant to the functioning of various body systems.

**Application of knowledge and skills:**

- A1.** Demonstrate accurate use of health terminology related to human anatomy and physiology for communication in a health or therapeutic environment;
- A2.** Utilise anatomical and physiological structures or events and relate to the potential impact on physical health
- A3.** Demonstrate and apply theoretical concepts of anatomy and physiology to simulated scenarios.

**Unit Content:**

The current Exercise Science Accreditation Standards, the Victorian Institute of Teaching, NMBA Standards for Practice for Enrolled Nurse, NMBA Registered Nurse Standards for Practice, NMBA Code of Conduct for Nurses, Code of Ethics for Nurses, National Safety and Quality Health Service Standards, Aged Care Quality Standards, National Health Priority Areas and where

applicable the NMBA National Competency Standards for the Midwives, NMBA Code of Conduct for Midwives, ICM/NMBA Code of Ethics for Midwives have informed the content development of this unit.

Topics may include:

- Introduction to the Human Body, Organisation and Cavities
- Cells, Tissues and Homeostasis
- Skeletal System: Bone Tissue, Axial and Appendicular Skeleton
- Muscular System: Muscle Tissue, Macroscopic and Molecular Structure of skeletal muscle and Joints\*
- Nervous System: Neural Tissue, The Synapse and Transmission
  - Central Nervous System: The Brain & Spinal Cord
  - Peripheral Nervous System: Somatic Nerves, ANS & Reflexes
  - Heart: Structure & Function, Cardiac Cycle & Electrical Activity
  - The Circulatory System: Blood, Blood Vessels & Blood Pressure Regulation
  - The Respiratory System: Structure & Function, Pulmonary Ventilation & Gas Exchange
  - The Reproductive Systems: Male, Female & Pregnancy

### Learning Task and Assessment:

A 15-credit point unit will involve a minimum of 150 hours of learning. For every one hour of teacher-directed learning, there will be a minimum of two hours of learner directed learning. Additional hours will be required to complete the associated assessment tasks. Learner-directed hours will include self-directed learning, directed activities and formative assessment opportunities via the learning management system. The teacher-directed hours of learning in this unit will be through a variety of in-person or online small group learning sessions. Students are expected to attend and engage with all scheduled classes as per the assessment hurdle requirements for this unit.

Hurdle assessment task is excluded from supplementary assessment.

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K2, K3, S1, S2, S3, A1, A2, A3	Laboratory Session Attendance and Participation: Students attend and participate in 90% of scheduled laboratory classes. Participation can involve undertaking practical activities, analysing scenarios, engaging in class discussion, generating and collating data and completing worksheets to address their competency and comprehension of the work being undertaken.	90% Laboratory Attendance and Participation	S/U Hurdle
K1, K2, K3, S1, S3, A2, A3	Students need to complete templated report/s that will be provided during their lab time on information covered in the labs. They will be expected to collect and analyse data related to the topic, interpret the data and answer questions at the end of the report.	Lab Report	20-40%

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K2, K3, S1, S2, S3, A1, A2, A3	Laboratory and associated online content - Online test covering all learning outcomes, completed mid-semester.	Test	10-30%
K1, K2, K3, S1, S2, S3, A1, A2, A3	Laboratory and associated online content - Practical based exam covering all learning outcomes, completed during the end of semester exam period.	Practical Test	40-60%

### Adopted Reference Style:

APA

Refer to the [library website](#) for more information

Fed Cite - [referencing tool](#)