

Unit Outline (Higher Education)

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|----------------------------|---|
| Institute / School: | Institute of Health and Wellbeing |
| Unit Title: | Anatomy & Physiology for Health Professionals 1 |
| Unit ID: | HEALT1111 |
| Credit Points: | 15.00 |
| Prerequisite(s): | Nil |
| Co-requisite(s): | Nil |
| Exclusion(s): | Nil |
| ASCED: | 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, digestive and metabolic systems.

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

Work Experience:

No work experience

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 | <input type="checkbox"/> | <input type="checkbox"/> | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Intermediate | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Advanced | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Learning Outcomes:

Knowledge:

- K1.** Describe basic chemical and cellular composition, functions and organisation of the human body and how they contribute to homeostasis, protein synthesis and metabolism under normal conditions;
- K2.** Identify and describe micro and macro-level anatomical structures of relevant body systems including the Musculoskeletal, Central and Peripheral Nervous, and Digestive systems of the human body;
- K3.** Explain physiological processes and integration of specific body systems including the Musculoskeletal, Central and Peripheral Nervous, Digestive and Metabolic Systems of the human body and how they respond to movement;
- K4.** Identify and describe the gross anatomy and surface musculoskeletal structures, including joint complexes, of the human body and their role in human movement; and
- K5.** Describe the major anatomical changes during growth and development across the lifespan and how they relate to health and human movement.

Skills:

- S1.** Relate the concept of homeostasis to physiological processes and the integration of systems to human movement contexts;
- S2.** Apply correct anatomical terms to describe anatomical structure, position, movement, body regions, direction, and body planes or sections; and
- S3.** Use a variety of resources to be able to locate and describe components of body systems and develop cognitive skills to consolidate and synthesise knowledge.

Application of knowledge and skills:

- A1.** Establish a foundation of new knowledge and skills in human anatomy and physiology that can be applied to human movement settings;
- A2.** Demonstrate and apply relevant anatomical or lay terms when communicating with health or exercise professionals or clients; and
- A3.** Make accurate observations of anatomical and physiological structures or events in normal functioning conditions and during human movement.

Unit Content:

This may include:

- Introduction to the Human Body, Organisation and Cavities
- Cells, Tissues and Homeostasis
- Introduction to the Musculoskeletal System: Bone Tissue, Axial and Appendicular Skeleton, Muscle Tissue, Macroscopic and Molecular Structure of skeletal muscle

- Articular System and the structure and function of joints complexes
- Identification of gross and surface anatomical structures of the musculoskeletal and human movement systems.
- Nervous System: Neural Tissue, The Synapse and Transmission
- Central Nervous System: The Brain & Spinal Cord
- Peripheral Nervous System: Somatic Nerves, ANS & Reflexes
- Digestive system: Structural Aspects, Nutrition, Digestive and Metabolic Processes

Learning Task and Assessment:

| Learning Outcomes Assessed | Assessment Tasks | Assessment Type | Weighting |
|--|---|--|------------|
| K1, K2, K3, K4, K5, S1, S2, S3, A1, A2, A3 | Laboratory Session Attendance and Participation: Students attend and actively participate in 90% of scheduled laboratory classes. Active 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, K4, K5 | Lab Manual Completion: In accordance with active participation in lab classes, students are to complete a Lab Manual to display and develop proficiency in study strategies that promote knowledge acquisition and retention. For Flexible Mode Students, this will also involve satisfactory preparation for fortnightly tutorials/workshops. | 90% completion of workbook to a satisfactory standard. | S/U Hurdle |
| K1, K2, K3, K4, K5, S1, S2, S3, A1, A2, A3 | Laboratory and associated online content - Online test or quizzes covering all learning outcomes, completed mid-semester (test) or during semester (quizzes). | Online Test/Online Quizzes | 10-30% |
| K1, K2, K3, K4, K5, 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 Exam | 30-50% |
| K1, K2, K3, K4, K5, S1, S2, S3, A1, A2, A3 | Laboratory and associated online content - Theoretical-based exam covering all learning outcomes, completed during the end of semester exam period. | Theory Exam | 30-50% |

Adopted Reference Style:

APA ()

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

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