# Unit Outline (Higher Education)

| | |
|---|---|
| **Institute / School:** | Institute of Health and Wellbeing |
| **Unit Title:** | ANATOMY AND PHYSIOLOGY FOR PHYSIOTHERAPY |
| **Unit ID:** | NHPPS1111 |
| **Credit Points:** | 15.00 |
| **Prerequisite(s):** | Nil |
| **Co-requisite(s):** | Nil |
| **Exclusion(s):** | Nil |
| **ASCED:** | 061701 |

**Description of the Unit:**

This unit will introduce the principles of human body structure and function as relevant for students of Physiotherapy. This includes an introduction to cells and tissues, the musculoskeletal system and the nervous system. This will include a detailed study of the gross anatomical structure and functional anatomy of the skull, vertebral column and the lower limb including the hip, thigh, knee, leg, ankle and foot. An integrated understanding of the human body will be achieved through online learning as well as practical sessions, including the interactive study of digital human cadaveric models and clinical case studies. This blended approach to learning will facilitate the integration of learning material with contemporary clinical practice, through the correlation of anatomical structure to physiological function.

**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 the unit the students are expected to be able to:

**Knowledge:**

**K1.** Identify and describe the structure and function of the musculoskeletal and nervous systems

**K2.** Identify and describe the gross anatomy of the skull, vertebral column and the lower limb, including the hip, thigh, knee, leg, ankle and foot

**K3.** Discuss the relationship between the organisational levels of the human body from the cellular to the organ level

**K4.** Explain the fundamental science of selected imaging techniques

**K5.** Explain the basic kinesiology of the joints of the lower limb

**Skills:**

**S1.** Relate the concept of homeostasis to physiological processes

**S2.** Demonstrate an understanding of imaging principles to the interpretation of ultrasound, radiographic and MRI images

**S3.** Apply underlying physiological principles to the care of a client in a practical scenario

**S4.** Collate and evaluate clinical data relevant to the functioning of various body systems

**Application of knowledge and skills:**

**A1.** Apply anatomical and physiological knowledge to physiotherapy

**A2.** Assess and interpret selected imaging techniques with an applied understanding of the underpinning science

**Unit Content:**

The Physiotherapy Board of Australia (PBA) Code of Conduct (2014); Physiotherapy practice thresholds in Australia and Aotearoa New Zealand (2015) and National Safety and Quality Health Service (NSQHS) Standards (2017) have substantially informed the syllabus/content of this unit.

- Musculoskeletal anatomy and physiology of muscles, bones, joints and ligaments
- Anatomy, kinesiology and physiology of the hip, thigh, knee, leg, ankle, foot and vertebral column
- Introduction to clinical imaging
- Cells, tissues, nerves and skin
- Anatomy and physiology of the nervous system

**Learning Task and Assessment:**

| Learning Outcomes Assessed | Assessment Tasks | Assessment Type | Weighting |
|---|---|---|---|
| K1, K2, K3, K4, S1, S2, S3, S4 | Online quiz based on lesson content delivered with a focus on anatomy and physiology. - (Early Intervention Task) | Online quiz | 5-15% |
| K1, K2, K3, K4, S1, S2, S3, S4 | Online quiz based on lesson content delivered with a focus on anatomy and physiology. - (Mid Semester) | Online quiz | 5-15% |
| K1, K2, K3, K4, S1, S2, S3, S4 | Online quiz based on lesson content delivered with a focus on anatomy and physiology. - (End of Semester) | Online quiz | 5-15% |
| K1, K2, K3, S2, S3, A1, A2 | Flag race styled assessment based on lesson content delivered with a focus on laboratory tasks and fundamental knowledge | Practical Examination | 20-40% |
| K1, K2, K3, K4, K5, S1, S2, S3, S4, A1, A2 | Written examination covering all learning outcomes | End of Semester Examination | 30-50% |

**Alignment to the Minimum Co-Operative Standards (MiCS)**

The Minimum Co-Operative Standards (MiCS) are an integral part of the Co-Operative University Model. Seven criteria inform the MiCS alignment at a Course level. Although Units must undertake MiCS mapping, there is NO expectation that Units will meet all seven criteria. The criteria are as follows:

1. Co-design with industry and students
2. Co-develop with industry and students
3. Co-deliver with industry
4. FedTASK alignment
5. Workplace learning and career preparation
6. Authentic assessment
7. Industry-link/Industry facing experience

MiCS Course level reporting highlights how each Course embraces the principles and practices associated with the Co-Operative Model. Evidence of Course alignment with the MiCS, can be captured in the Course Modification Form.

**MICS Mapping has been undertaken for this Unit:** No

Date:

**Adopted Reference Style:**

APA

Refer to the library website for more information

Fed Cite - referencing tool