



MASTER OF PHYSIOTHERAPY PRACTICE PRE-REQUISITE INFORMATION FORM

Instructions

- Produce a **single** PDF with a file size of LESS than 5MB with the following documentation, which should be presented in the following order:
 - i. Completed Assumed Knowledge Information Table below
 - ii. A title page entitled “Musculoskeletal Anatomy”, followed by a description of the tertiary subject (this is typically a paragraph outlining the purpose of the subject), and where possible, a full subject outline/unit guide (including schedule/timetable, assessment tasks, list of lectures and workshops) for each unit of study listed for musculoskeletal anatomy, with the evidence for having met the anatomy assumed knowledge. Follow this with the same information in the same format for “Physiology”. Please note, if the same tertiary unit of study (subject) included content for more than one assumed knowledge area, then information from that tertiary unit of study will need to be repeated in each relevant section.
- The form will be considered as complete **ONLY** with the inclusion of the above information for **EACH tertiary** unit (subject) you list on this form.

Musculoskeletal Anatomy

Note –Musculoskeletal anatomy may be covered in stand-alone anatomy subjects or as part of subjects which combine different fields in the subject eg anatomy and physiology in one subject.

You will need to have studied at least TWO subjects containing detailed musculoskeletal anatomy, and across all combined anatomy units you must have covered in detail at least TWO of the following regions: upper limb, lower limb, trunk, head / neck.

Covering neuroanatomy is strongly encouraged, but not mandatory.

Subject code and name	Number of hours/ week	Number of weeks	Year completed
Body regions covered:		Tertiary Subject code(s)	
Upper limb			
Lower Limb			
Trunk (back, thorax)			
Head and/or neck			
Neuroanatomy			

Human Physiology

Physiology may be covered in stand-alone physiology subjects or as part of subjects which combine different fields in the subject.

To cover the physiology you will have undertaken at least 1 subject with a physiology component.

Subject code and name	Number of hours/ week	Number of weeks	Year completed

Non-award / Cross-institutional Studies

List relevant tertiary subjects

Area of study	Institution study undertaken at	Year completed

General Information:

Applicants for the Master of Physiotherapy Practice course must have extensive pre-existing knowledge in the following two essential areas:

- **Musculoskeletal Anatomy – at least 2 units**
- **Human physiology – at least 1 Unit**

The musculoskeletal anatomy and physiology assumed knowledge may be covered in stand-alone subjects or as part of subjects with mixed content. Where individual subjects cover multiple topics (eg. mixed anatomy and physiology subjects), the learning and teaching hours and learning outcomes will be carefully considered to determine if sufficient depth and breadth of both anatomy and physiology has been achieved.

Students can claim pre-requisite subjects from within any tertiary degree, as well as from non-award / individual tertiary units of study. Subjects must be successfully completed by the end of the academic year to enable selection of students into the course at the start of the following year.

It is important that you disclose all relevant study (award and non-award) in your application, failure to do this may result in an unsuccessful application.

Descriptions of the following examples of eligible subjects offered at LTU can be used to match with comparative subjects offered at other universities.

MUSCULOSKELETAL ANATOMY (at least 2 of)

PAM2TUL – Anatomy of the trunk wall and upper limb

In this subject, you will gain knowledge in the anatomical principles of the regional anatomy of the trunk wall and upper limb. Topic material will be presented face-to-face and online through lectures, video clips and worksheets, but you will be responsible for your own learning through supported practical activities, including the examination of appropriate cadaver materials. Emphasis is placed on the application of anatomical principles to reinforce how structure relates to function.

PAM2LIN – Anatomy of the lower limb and trunk & introduction to neuroanatomy

In this subject, you will gain knowledge in the anatomical principles and regional anatomy of the lower limb. There will also be an introduction to brain anatomy and neural pathways. Topic material will be presented face-to-face and online through lectures, video clips and worksheets, but you will be responsible for your own learning through supported practical activities, including examination of appropriate cadaveric materials. Emphasis is placed on the application of anatomical principles to reinforce how structure relates to function.

PAM3HAN - Head, neck anatomy & neuroanatomy

In this subject, the anatomical principles covered in HBS2HAA (PAM2LIN)/HBS2HAB (PAM2TUL) will be applied to the detailed study of head, neck and neuroanatomy. Topic materials will be presented face to face and online lectures, videoclips and worksheets, but students will be responsible for their own learning through supported face to face practical activities and online workshops, including examination of appropriate cadaver materials. Emphasis is placed on the application of anatomical principles to correlate structure with function in developing an understanding of the basis of everyday activities and related clinical problems.

PHYSIOLOGY (at least 1 of)

PAM2HP1 – Human physiology 1

In this subject you gain knowledge in systems physiology, including the nervous system, muscle tissue, endocrinology and the gastrointestinal system. We will discuss how the nervous system controls body systems, focusing on the electrical transmission of information and how this is modulated. Our focus then shifts to muscle tissue and the mechanisms involved in skeletal muscle contraction, force generation and fatigue. You will gain a detailed understanding of the endocrine system and how it is responsible for controlling many of our bodies daily functions and metabolism. The semester concludes focusing on the gastrointestinal systems where you will gain an understanding of the mechanisms surrounding food digestion and nutrient absorption. The detailed online resources in this subject will be supported by a comprehensive program of enquiry based workshops. Practical classes will allow you to undertake experiments to enhance your learning experience, whilst building on communication skills. The completion of an online employability module will give you the opportunity to build and reflect on experiences that will prepare you for life beyond university.

PAM2HP2 – Human Physiology 2

In this subject you gain knowledge in systems physiology, including the heart, blood, immune, renal, respiratory and acid-base systems. We discuss how the heart is mechanical pump, followed by how blood vessels control blood flow and pressure. Our focus then shifts to the blood and mechanisms involved in developing immunity. You will gain a detailed understanding of the renal system and how it clears the body of waste while also being an important regulator of blood pressure. The respiratory system then becomes our focus where you will gain understanding of breathing mechanisms and how gasses are transported around the body. We conclude focusing on how the body regulates pH using both renal and respiratory buffers. The detailed online resources in this subject are supported by a comprehensive program of enquiry based workshops. Practical classes will allow you to undertake experiments to enhance your learning experience, whilst building on communication skills.