

MASTER OF PHYSIOTHERAPY PRE-REQUISITE INFORMATION FORM (2019)

Instructions

- If you have completed an [approved degree](#), you are not required to complete this form. If you have not completed an approved feeder degree, complete this form after going through the [definitions](#) of the assumed knowledge requirements.
- Produce a **single** PDF with the following documentation, which should be presented in the following order:
 - i. Completed Assumed Knowledge Information Table below
 - ii. A title page entitled “Human Anatomy”, followed by the unit (subject) curriculum/unit of study outline, and where possible, a unit schedule/timetable for each unit of study listed for human anatomy, with the evidence for having met the anatomy assumed knowledge **highlighted**. Follow this with the same information in the same format for “Human Physiology”, “Exercise Physiology”, “Neuroscience” and “Psychology” (in that order). Please note, if the same unit of study (subject) included content for more than one assumed knowledge area, then information from that 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** unit (subject) you list on this form, along with your Academic transcript.
- Disorganised or incomplete submissions will not be assessed.
- Please contact us at admissions.healthsciences@sydney.edu.au should you experience any problem with uploading documents.

Name:	Student ID
Applicant type: <input type="radio"/> International / <input type="radio"/> Domestic	Email ID:
Phone:	Date:
Name of undergraduate degree and:	
Institution obtained from:	

Human Anatomy:

note – minimum 2 units (or the equivalence of 2 units (approx. 40 hours class time per unit) required

Unit (subject) code and name	Number of hours/ week	Number of weeks	Year completed
Area of study: the areas listed below must include study of bones, muscles, ligaments, nerves and, blood vessels		Unit (subject) code(s)	
Upper limb			
Lower limb			
Vertebral column, thorax and pelvis			
Cardiovascular system			
Respiratory system			
Renal system			

Human Physiology

Unit (subject) code and name	Number of hours/ week	Number of weeks	Year completed
Area of study: The physiology and histology of the systems below		Unit (subject) code(s)	
Cardiovascular system			
Respiratory system			
Endocrine system			
Renal system			
Reproductive system			

Exercise Physiology			
Unit (subject) code and name	Number of hours/ week	Number of weeks	Year completed
Area of study: The systemic responses to exercise and exercise training in the systems below		Unit (subject) code(s)	
Cardiovascular system			
Respiratory system			
Endocrine system			
Acid/base regulation (renal and respiratory)			
Muscle			

Neuroscience			
Unit (subject) code and name	Number of hours/ week	Number of weeks	Year completed
Area of study: The anatomy and physiology of the areas listed below		Unit (subject) code(s)	
Brain and spinal cord			
Somatosensory receptors (e.g., mechanoreceptors and pathways for sensations such as touch, temperature, pain, proprioception)			
Spinal reflexes (e.g. stretch reflex)			
Autonomic nervous system (sympathetic/parasympathetic pathways)			
Motor pathways (pyramidal and extrapyramidal pathways)			

Psychology			
Unit (subject) code and name	Number of hours/ week	Number of weeks	Year completed
Area of study		Unit (subject) code(s)	
Introduction to major paradigms/methodological approaches of contemporary psychology			

Non-award/Cross-institutional Studies		
Area of study	Institution study undertaken at	Year completed

General Information:

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

- Human Anatomy
- Human Physiology
- Exercise Physiology
- Neuroscience
- Psychology

We recognise that some universities may teach integrated anatomy and physiology; and that physiology, exercise physiology, and neuroscience may overlap. In these cases, you must demonstrate equivalent coverage of these topics by having undertaken four or five units of study (subjects) of the material described below. The depth of coverage and learning and teaching hours per unit of study (subject) will be assessed and taken into account.

All the units of study used to cover pre-existing knowledge can be studied as [non-award](#) units through the Faculty of Health Sciences (course codes listed below). Successful completion of such study will meet the assumed knowledge requirement in the stated area(s). Please note that if you choose to undertake such non-award study, it will have to be completed (or be on track to complete) before commencement of the Masters of Physiotherapy program.

Depending on availability and scheduling, non-award studies can be done at the Faculty of Health Sciences or through [Summer School](#). Handbook links to each non-award unit is provided in the following pages; refer to the pages to determine session availability. Please be aware that regardless of what method you choose in order to meet the assumed knowledge criteria, you have to complete this before commencement of the Master of Physiotherapy degree. Note: if you do the units as a non-award student, you will have to pay upfront and will not be eligible for HECS- Help.

Note: Non-award study is subject to availability and therefore may not be offered in all sessions advertised in the Faculty Handbook.

If you are currently studying at another faculty or university, depending on your course framework and if permitted by your home institution/faculty, you could also do the necessary units to cover the pre-existing knowledge requirements as [cross-institutional](#) units. By studying these units as a cross-institutional student, you will not have to pay for the unit(s) upfront as they will be considered as part of your current award course. Fees for any units done as cross-institutional study can be absorbed into your current HECS debt (or as per your current payment method).

Definitions of assumed knowledge areas

Human Anatomy

- Study of *human* anatomy, particularly of the musculoskeletal, nervous, cardiovascular, respiratory and renal systems.
- It is *essential* that the following areas of the human body have been studied - bones, joints, ligaments, muscles, blood vessels and nerves of the upper limb, lower limb, vertebral column, thorax and pelvis.
- It is *essential* that the anatomy of the heart, lungs, and renal system have been studied. This anatomy may be covered in physiology, exercise physiology or neuroscience units of study.
- It is *desirable* that applicants have also studied histological features of tissues of the musculoskeletal systems, to have used a regional approach to their study (i.e. studied the complete anatomy of the shoulder or hip or ankle and foot at one time *before moving* onto another body region) and to have attended laboratory classes in which human cadavers are studied
- [BIOS1168 Functional Musculoskeletal Anatomy A](#) (Semester 2 only) **AND** [BIOS1169 Functional Musculoskeletal Anatomy B](#) (Semester 1 only) are both units that are offered by the Faculty of Health Sciences and are available as undergraduate non-award study units. Successful completion of **BOTH** units is required to fulfill the assumed knowledge criteria for Human Anatomy. Refer to <http://sydney.edu.au/courses/health-sciences-undergraduate-non-award> for further information on how to apply.

Note: Students will only be permitted to enroll in the following order: BIOS1168 – semester 2 & BIOS1169 – semester 1.

Human Physiology

- Study of the physiology and histology, of the main systems of the human body.
- It is *essential* that the physiology of the following systems of the human body have been studied – cardiovascular, respiratory, endocrine, renal and reproductive. Cardiovascular, respiratory and renal physiology may be studied in exercise physiology units of study.
- It is *desirable* that applicants have also studied pathophysiology of the systems described above.
- It is *desirable* that applicants have also studied pharmacology and immunology.
- [BIOS1170 Body Systems: Structure and Function](#) is offered by the Faculty of Health Sciences and is available as an undergraduate non-award study unit. Successful completion of this unit fulfills the assumed knowledge criteria for Human Physiology. Please refer to <http://sydney.edu.au/courses/health-sciences-undergraduate-non-award> for further information on how to apply.

Exercise Physiology

- Study of the systemic responses to exercise and exercise training.
- It is *essential* that applicants have studied the responses of the human muscular and cardiorespiratory systems to acute exercise and to exercise training.
- It is *essential* that applicants have studied the acute changes in endocrine and acid-base (renal and respiratory) regulation during exercise; and *desirable* that adaptations to exercise training have been studied
- It is *desirable* that both resistance training and aerobic exercise training have been studied
- It is *desirable* that effects of ageing, inactivity (or bed rest), disease (e.g. diabetes) and/or conditions (e.g. obesity) on responses to exercise and training have been studied
- [EXSS2027 Exercise Physiology for Clinicians](#) **AND** [EXSS1029 Muscle Mechanics and Training](#) **OR** [EXSS2028 Exercise Physiology and Biochemistry](#) **AND** [EXSS1029 Muscle Mechanics and Training](#) are sets of units offered by the Faculty of Health Sciences as undergraduate non-award study units. Successful completion of either combination of units fulfills the assumed knowledge criteria for Exercise Physiology. Please refer to <http://sydney.edu.au/courses/health-sciences-undergraduate-non-award> for further information on how to apply

Neuroscience

- Study of the anatomy and physiology of neural structures as well as fundamental concepts of nervous system functioning.
- It is *essential* that the anatomy of the human brain and spinal cord have been studied.
- It is *essential* that applicants have also studied the structure of the nervous system and neurons as well as the basic electrical concepts underlying neural signals including signal transmission and communication
- It is *essential* that the following systems/pathways have been studied:
 - spinal reflexes (e.g. stretch reflex)
 - somatosensory system (including receptors and pathways for sensations such as touch, temperature, proprioception and pain)
 - autonomic nervous system (including the sympathetic and parasympathetic pathways), and
 - the descending motor pathways (including the pyramidal and extrapyramidal systems)
- It is *desirable* that students have attended laboratory classes in which human cadavers are studied
- [BIOS1171 Neuroscience](#) is offered by the Faculty of Health Sciences and is available as an undergraduate non-award study unit. Successful completion of this unit fulfills the assumed knowledge criteria for Neuroscience. Please refer to <http://sydney.edu.au/courses/health-sciences-undergraduate-non-award> for further information on how to apply.

Psychology

- Study, at an introductory level, of the major paradigms and methodological approaches of contemporary psychology
- It is *desirable* to study these in relation to health and wellbeing
- [HSBH1003 Health, Behaviour and Society](#) is offered by the Faculty of Health Sciences as non-award unit of study. Successful completion of **EITHER HSBH1003 or BACH1161** fulfills the assumed criteria for Psychology
- PSYC1001 **OR** PSYC1002 (available through the [School of Psychology](#)) are also acceptable units of study. Please refer to <http://sydney.edu.au/courses/health-sciences-undergraduate-non-award> for further information on how to apply.

APPROVED DEGREES

List of approved degrees deemed to meet assumed knowledge requirements

1. **The list below is valid only for degrees completed within the last 10 years for the entry into 2019.**
2. You must complete the Assumed Knowledge Information form if:
 - (a) The degree was completed more than 10 years ago for 2019 entry
 - (b) You have completed one of the degrees in the list but do not have the specific units listed under the degree

University	Degree Name	Condition
Australian Catholic University	Bachelor of Exercise & Sports Science	None
Bond University	Bachelor of Exercise & Sports Science	None
Charles Sturt University	Bachelor of Exercise Science (Rehabilitation)	None
	Bachelor of Exercise & Sports Science	None
Deakin University	Bachelor of Exercise & Sports Science	Must have completed ALL of the following units of study: •HSE208 (Integrated Human Physiology AND •HSE309 (Behavioral aspects of sport and exercise)
Queensland University of Technology	Bachelor of Exercise & Movement Science	None
	Bachelor of Sport & Exercise Science	None
University of Newcastle	Bachelor of Exercise & Sports Science	None
University of New South Wales	Bachelor of Science (Health and Exercise Science)	None
	Bachelor of Exercise Physiology	None
	Bachelor of Science (Health and Sport Science)	Must have completed ONE of the following units of study: •NEUR3101 (Muscle & Motor Control) •HESC3571 (Motor Control & Dysfunction) •PHPH3502 (Skeletal Muscle in Health & Exercise)
University of Queensland	Bachelor of Exercise & Sports Sciences (Hons)	None
University of South Australia	Bachelor of Human Movement	Must have completed ALL of the following units of study: •HLTH 1030 (Human anatomy 101) AND •HLTH 2022 (Human anatomy 200) AND •HLTH 3049 (Human movement neuroscience)
University of Sydney	Bachelor of Applied Science (Exercise & Sports Science)	None
	Bachelor of Applied Science (Exercise Physiology)	None
	Bachelor of Exercise Physiology (Honours)	None
	Bachelor of Health Sciences (Major Movement Science)	None
University of Technology Sydney	Bachelor of Management in Sport & Exercise	Must have completed ALL of the following units of study: •91706 (Neuroscience) AND •91424 (Physiological bases of human movement)
	Bachelor of Human Movement	Must have completed the following unit of study: •91706 (Neuroscience)
	Bachelor of Sport & Exercise Science	Must have completed the following unit of study: •91706 (Neuroscience)
	Bachelor of Sport & Exercise Management	Must have completed ALL the following units of study: •91706 (Neuroscience) AND •91429 (Physiological bases of human movement)

University of Western Australia	Bachelor of Science (Exercise and Health)	<p>Must have completed the following units of study:</p> <ul style="list-style-type: none"> •SSEH1101 (The musculoskeletal system and movement) AND •ANHB2212 (Human structure and development) AND •ANHB2217 (Human neurobiology) AND •[PHYL2001 (Physiology of human body systems) OR •ANHB2214 (Human organs and systems)]
University of Wollongong	Bachelor of Exercise Science and Rehabilitation	None
	Bachelor of Exercise Science	None
	Bachelor of Medical and Health Science	<ul style="list-style-type: none"> •PSYC101 (Introduction to psychology)
	Bachelor of Science (Major in Exercise Science)	<p>Must have completed ONE of the following units of study:</p> <ul style="list-style-type: none"> •SHS320/MEDI320 (Motor Control & Dysfunction) •SHS311 /MEDI311 (Fundamentals of Nueroscience) •BMS346 (Motor Control & Dysfunction)
Victoria University	Bachelor of Sport Science (Exercise Science)	None
	Bachelor of Exercise Science (Sport Practice)	None
	Bachelor of Exercise Science (Clinical Practice)	None
	Bachelor of Biomedical and Exercise Science	None
	Bachelor of Sport Science (Human Movement)	<p>Must have completed ALL the following units of study:</p> <ul style="list-style-type: none"> •AHE2202 (Functional Kinesiology) AND •AHE3126 (Motor control)
	Bachelor of Sport Science (Human Movement) / Bachelor of Sport Management	<p>Must have completed ALL the following units of study:</p> <ul style="list-style-type: none"> •AHE2202 (Functional Kinesiology) AND •AHE3126 (Motor control)
Western Sydney University (Previously known as University of Western Sydney)	Bachelor of Applied Science (Exercise & Sport Science)	None
	Bachelor of Health Science (Sport & Exercise Science)	<p>Must have completed ONE of the following units of study:</p> <ul style="list-style-type: none"> •400946 (Clinical neurosciences) •400166 (Clinical neurosciences) •300322 (Neuro Anatomy) •300754 (Neuro Anatomy)