Master of Exercise Physiology (Graduate Entry)
Definitions of assumed knowledge areas

Human anatomy
- Study of human anatomy, particularly of the cardiopulmonary, nervous and musculoskeletal 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, as well as the anatomy of the cardiovascular and respiratory system, brain and spinal cord and the somatosensory nervous system.
- It is desirable that applicants have also studied histological features of tissues of the cardiopulmonary, nervous and musculoskeletal systems, to have used a regional approach to their study (ie. 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.
- For examples of subjects that cover the necessary assumed knowledge, refer to the Unit of Study description of BIOS1168 Functional Musculoskeletal Anatomy A and BIOS1169 Functional Musculoskeletal Anatomy B in the Faculty of Health Sciences Handbook.

Human or Exercise Physiology
- Study of the gross anatomy, functional histology and functioning of the main systems of the human body.
- It is essential that the following systems of the human body have been studied – cardiovascular, respiratory, muscular and nervous.
- It is desirable that the following systems of the human body have been studied – renal, digestive, reproductive and endocrine.
- It is essential that applicants have also studied the impact of acute exercise on system function and adaptations to the systems of the body during exercise.
- For examples of subjects that cover the necessary assumed knowledge, refer to the Unit of Study description of BIOS1170 Body Systems: Structure and Function in the Faculty of Health Sciences Handbook.

Biomechanics/Physics
- Study of the application of mechanical principles to human movement and everyday human activities.
- For examples of subjects that cover the necessary assumed knowledge, refer to the Unit of Study description of EXSS1018 Biomechanics of Human Movement in the Faculty of Health Sciences Handbook.

Psychology/Behavioural Science
- Study, at an introductory level, of the major paradigms and methodological approaches of contemporary psychology as well as the origins and nature of modern societies (ie sociology).
• It is *desirable* to study these in relation to health and wellbeing.
• For examples of subjects that cover the necessary assumed knowledge, refer to the Unit of Study description of *BACH1161 Introductory Behavioural Health Sciences* in the Faculty of Health Sciences Handbook.

**Research Design and Statistics**

• Study of experimental research design and methods of data analysis and interpretation.
• It is *essential* that applicants have studied research design and hypothesis testing.
• It is *essential* that applicants have studied quantitative methods of data analysis and be familiar with some common data analysis tools.
• It is *desirable* that applicants have studied qualitative methods of data analysis.
• For examples of subjects that cover the necessary assumed knowledge, refer to the Unit of Study description of *HSBH1007 Health Science and Research* in the Faculty of Health Sciences Handbook.