

DIPLOMA OF HEALTH SCIENCE

Program Information

The Diploma of Health Science introduces students to the physiological, psychological, social and cultural elements involved in health care, and provides the foundation for further studies in a health related degree program at the University of South Australia. Listed below are the courses comprising the Diploma of Health Science.

You may have been granted exemption from some courses depending on your academic results. These will be listed in your offer letter.

| Stage 1 | | Study Load | Units |
|----------|---|------------|-------|
| ESS001 | Essential Study Skills | 25% | 4.5 |
| ITN002 | Information and New Media Technologies | 25% | 4.5 |
| CHM001 | Chemistry * (Not available every semester – check when enrolling) | 25% | 4.5 |
| GSC001 | Science and Society (Prerequisite for HLTH1011) | 25% | 4.5 |
| HBI001 | Human Biology (Prerequisite for HLTH1011) | 25% | 4.5 |
| CPP002 | Communication: People Place and Culture | 25% | 4.5 |
| ARC002 | Academic Research and Critical Enquiry | 25% | 4.5 |
| MST001 | Mathematics and Statistics (Prerequisite for MATH1040) | 25% | 4.5 |
| Stage 2 | | | Units |
| HLTH1011 | Human Physiology 1 (Prerequisite for HLTH1012) | 25% | 4.5 |
| HLT1029A | Foundations of Health | 25% | 4.5 |
| HLTH1038 | Population Health | 25% | 4.5 |
| BEH1005A | Applied Psychology | 25% | 4.5 |
| HLTH1036 | Global and National Health | 25% | 4.5 |
| HLTH1020 | Human Anatomy | 25% | 4.5 |
| MATH1040 | Statistics for Lab Sciences | 25% | 4.5 |
| HLTH1012 | Human Physiology 2 | 25% | 4.5 |

Program Outline

Stage 1 Core Courses

Essential Study Skills

In this course students will be provided with an understanding and application of essential study skills, covering independent learning skills and styles, active listening, presentation and group work skills.

Information and New Media Technologies

You will be introduced to the use of the Internet, social media and associated technologies in society and business. Through the course, you will utilise Microsoft Office along with online tools for effective communication and discuss the ethical and security issues related to the use of Information Communication Technologies.

Chemistry

In this course you are introduced to the basic principles of Chemistry. You will discuss the impact of chemistry and chemical technology on society, develop analytical techniques to understand chemical properties and reactions, and learn to communicate these ideas clearly to your peers.

Science & Society

The aim of this course is to give you an introductory understanding of how human body systems work. We will be covering the function of 4 physiological systems; the Nervous, Muscle, Cardiovascular and Respiratory systems. In addition, we will focus throughout on the scientific terminology related to human physiology. This will enable you to understand and communicate the concepts you will be learning. You will then be well prepared to continue into Human Physiology 1 where you will build on this knowledge.

Human Biology

This course will introduce you to the basic concepts of human biology as a foundation for further study in this area. You will develop an understanding of the main body systems and the associated biology, and an awareness and appreciation of the human body in a personal, social and medical context.

Communication, People, Place and Culture

In this unit you are introduced to the basic principles of communication and its role in society and culture. You will investigate the

effects of different forms of verbal and non-verbal communication and describe cultural influences on the communication process.

Academic Research and Critical Enquiry

This course will introduce you to the basic principles of critical thinking. It also assists you in developing skills needed for the tertiary study environment, including academic reading, listening and note-taking, as well as written formats and referencing.

Maths & Statistics

This course introduces you to the mathematical concepts required for further studies, particularly in statistics. You will learn to use fundamental arithmetic and algebra to solve problems, and apply statistical processes and concepts including sampling techniques and different forms of presentation.

Stage 2 Core Courses

Human Physiology 1

This course will provide you with an introduction to physiological principles and familiarize you with the following areas: cells, tissues and membranes, transport mechanisms, homeostasis, muscular system, skeletal system, nervous system, cardiovascular system, respiratory system and digestive system.

Pre-requisite: Human Biology, Science and Society

Foundations of Health

The course will provide you with an understanding of the roles and responsibilities of health professionals with particular reference to the consumer's position and perspective. It discusses the attributes required to work within a team of health professionals and builds a beginning knowledge of health reasoning.

Population Health

This course will develop student's understanding of the principles of population health and epidemiology within a global and national context. You will define aetiology and apply it to disease control, identify key sources of health data, risk factors and measures of disease occurrence.

Applied Psychology

This course provides you with an understanding of some basic psychological concepts. Broadly defined, psychology is a science that investigates human behaviour and experience in relation to aspects of the individual and the situation. This course introduces learning theory, emotion, personality and interpersonal relationships.

Psychological development of individuals is charted together with concepts of normality, mental health and illness and basic approaches to psychology in healthcare.

Global and National Health

The aim of this course is to develop your understanding of health and health care systems from a global, national and local perspective. The course covers models of health and wellbeing, the determinants of health, the health care system in Australia and other countries and primary health care systems.

Human Anatomy

This course provides you with a knowledge and understanding of the gross anatomy of the human body: upper limb; lower limb; thorax; abdomen; pelvis; spine; bones; joints; muscles; soft tissues; surface anatomy. Discipline specific applications such as movement patterns, strength testing; anatomical imaging and sectional anatomy will also be introduced.

Pre-requisite: Human Biology

Statistics for Laboratory Sciences

In this course you will develop your ability to implement a range of appropriate statistical techniques for laboratory-based work. The course provides an overview of sampling, measurement, random and systematic variation, the normal distribution and binomial distribution, and issues in quality control. A range of inferential statistics procedures will be introduced to include correlation, regression modelling, estimation and hypothesis testing and basic analysis of variance, using appropriate computer software.

Pre-requisite: Maths & Statistics

Human Physiology 2

The aim of this course is to familiarise you with the following major body systems: renal, endocrine, integumentary, lymphatic, immune, nervous and reproductive. You will be introduced to the mechanisms by which these systems are involved in whole body function, to enable you to relate the structure of body components to their function.

Pre-requisite: Human Physiology 1