Module Specification

Module Summary Information

1	**Module Title**	Principles of Anatomy and Physiology
2	**Module Credits**	20
3	**Module Level**	4
4	**Module Code**	HSC4070

5	**Module Overview**

Rationale

An appreciation of the principles of Anatomy and Physiology plays a central role in the understanding of the workings of the human body. This module will provide an awareness of key physiological systems ensuring you develop an ability to demonstrate the interplay of such systems to maintain the body in homoeostatic balance. This module will also aim to foster recognition of the importance of the underpinning theory that dictates clinical practise. For example enabling you to appreciate the critical awareness of blood pressure and linking the role of the cardiovascular and renal systems to control blood pressure. This would enlighten your understanding of how pathophysiology of the cardiovascular or renal systems can affect blood pressure, for example. A grounded knowledge base will also enable you to appreciate that correct clinical problem solving depends upon an accurate application of that knowledge. It provides you with confidence to practise your clinical skills safe in the knowledge that your skill is supported through widely believed evidence. Appreciating the interplay between different systems ensures that you are able to use your underpinning knowledge of anatomy and physiology to question the rationale of existing practices as well as help to rationalise practices that may be better.

This should enable your development in becoming part of a well-informed workforce, which will benefit the service users. The physiological systems will be taught in a way to show the impact of one physiological system on another. Pre and post session activities will help to develop your key transferrable skills such as being able to reflect and ask probing questions as well as being able to think independently. Development of these skills will ensure a growth in maturity and boost your confidence which will lead to unlocking your learning potential.

Furthermore the module will also aim to cater for all pathways such as radiography, midwifery, adult care, community health, mental health, child care and learning disability through the means of both pre and post session directed learning, field-specific activities.

Alignment with Philosophy and Aims

The Foundation Degree Health and Social Care programme is committed to developing workers who will be compassionate, caring, knowledgeable and productive members of inter-professional teams, with the ability to be adaptable and flexible in order to respond to the ever changing needs and priorities of the services we support.

This module aims to deliver up-to-date relevant knowledge of anatomy and physiology. By the end of the module you should have a holistic outlook on the human body, greatly expanding your knowledge and develop a better understanding of the human body. This will enable you to better understand disease. Achieving all these aims will also help to widen your horizons and enhance your learning potential.

Debriefing through stakeholders will provide knowledge of skills and competencies that will influence the modules taught material. This approach leads to taught material that is practice led and employability driven. The module is inherently interdisciplinary due to the multitude of pathways that feed into it. Resolutely sticking to these aims will enable you to pursue excellence.

Learning, teaching and assessment strategy

You will benefit from a range of learning activities that will be supported by directed e-learning via the module MOODLE site. You will be asked to review short videos and text to familiarise yourself with the topic to be discussed before a lecture. Quizzes will also be attached to the videos enabling you to test yourself. During the module launch emphasis will be placed on the requirement of student engagement with these pre-session studies and quizzes. Your engagement will be monitored through MOODLE. There will also be post-session activities in the form of quizzes, articles to read and exercises to complete that will also have an element of being field-specific. For example an exercise may be set to look at changes during healing of a bone which would be relevant to students coming from an imaging pathway.

Face to face teaching will be conducted through 3 hour interactive lectures. Lectures will be broken into segments allowing you to complete little exercises, either individually or in groups. This method is important because it will enhance your engagement as well as developing skills such as working in a team, problem solving and increasing confidence. Other interactive methods will also be utilised. The purpose of enhancing student engagement is to enhance learning. A certificate will be issued to you indicating your level of genuine engagement with the learning material.

The assessment will be through a 90 minute invigilated examination. The examination will be in the format of anatomical labelling, multiple choice and short answer questions. The questions will be designed to probe and assess whether you have demonstrated sufficient knowledge and appreciation of anatomy and physiology as well as comprehension of physiological principles and applications to fulfil the learning outcomes.

6	Indicative Content

This module will cover the learning of 8 different physiological systems which include:
The Nervous, Skin, Musculoskeletal, Cardiovascular, Respiratory, Renal, reproductive and digestive systems. However, to begin with, we will look at the fundamental aspects of cells and how groups of cells produce tissues and how different tissues produce organs. We will also explore how the body maintains optimum conditions despite the dynamic changes that occur and how organ systems integrate to maintain this balance called homeostasis.

As far as the physiological systems are concerned, we will look at the anatomy to begin with and then explore the functions of the system to describe the physiological attributes of each system we cover.

7	Module Learning Outcomes On successful completion of the module, students will be able to:	
	1	Identify the basic anatomy of organ systems within the human body and explain their basic physiology.
	2	Explain how organ systems, integrate to maintain physiological homeostasis.
	3	Relate the pathophysiology of organ systems to clinical outcomes.

8	Module Assessment		
Learning Outcome			
	Coursework	Exam	In-Person
1, 2, 3		X	

9	Breakdown Learning and Teaching Activities
Learning Activities	Hours
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	36
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	152
Private Study (PS) includes preparation for exams	12
Total Study Hours:	200