

Anatomy and Physiology

Module Code:	MHT4003-B
Academic Year:	2018-19
Credit Rating:	20
School:	(OUT OF USE FROM 2018/9) School of Engineering
Subject Area:	Medical and Healthcare Technology
FHEQ Level:	FHEQ Level 4
Module Leader:	Dr Mansour Youseffi

Additional Tutors:

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	48
Tutorials	24
Laboratory	3
Directed Study	125

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

To assist the students to develop their knowledge and understanding of the gross anatomy of the human body; cardiovascular and respiratory physiology; muscular-skeletal systems; cells and tissues; normal versus cancer cells; human fluid mechanics.

Outline Syllabus

Classification and nomenclature of directions, planes and axes as applied to the human form. Musculo-skeletal anatomy and physiology: Identification of bone types, key bones and classification of joint types, biological functions of bone. Identification of muscle types and key muscle groups, skeletal muscle physiology. Classification of connective tissues and their structures. Cardio-vascular anatomy and physiology: anatomy of the heart and circulatory system, cardiac function, vascular function. Respiratory anatomy and physiology: anatomy of the lungs, respiratory function. Neurological physiology and control: the central nervous system, regulatory systems. Various cells and tissues; normal versus cancer cells; human fluid mechanics.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 Describe the functional anatomy of the musculo-skeletal, cardio-vascular and respiratory systems; define key physiological processes for the musculo-skeletal, cardio-vascular and respiratory systems; relate physiological changes to functional activity.
- 2 Interpret data and use it to explain simple clinical observations.
- 3 Apply scientific method; interpret data; solve problems systematically.

Learning, Teaching and Assessment Strategy

Knowledge disseminated and concepts explored in lectures, with learning supported by tutorial problems. Formative assessment and oral feedback given in tutorials. Skills developed and learning contextualised in laboratory class. The formal examination will assess all of the learning outcomes expressed in the descriptor.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Examination - closed book	Examination - closed book	3 hours	100%	No

Legacy Code (if applicable)

Reading List

To view Reading List, please go to [rebus:list](#).