

Module Details	
Module Title	Radiography of the Appendicular Skeleton
Module Code	RAD4006-C
Academic Year	2021/2
Credits	30
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 4

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	12
Online Lecture (Asynchronous)	3
Practical Classes or Workshops	8
Interactive Learning Objects	12
Clinical Placement	100
Online Seminar (Synchronous)	3
Directed Study	24
Independent Study	138

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year

Module Aims
Anatomy, physiology and radiographic techniques of the upper and lower limbs and introduction to physical concepts of x-rays.

## Outline Syllabus

Macroscopic, microscopic and radiographic anatomy, physiology and pathology of the appendicular skeleton. Radiographic, anatomical and medical terminology related to the appendicular skeleton.

Radiographic technique and radiation protection for a comprehensive range of routine radiographic examinations. Patient care, informed consent and equality of service provision for a diverse population. Working as part of a health care team. Image evaluation. I

Introduction to SI units relevant to radiographic studies; exposure factors; the concept of energy; electromagnetic radiation and the electromagnetic spectrum; electricity and magnetism; fundamentals of X-ray production.

## Learning Outcomes

Outcome Number	Description
01	1.1 Describe normal anatomy and physiology and be able to differentiate common pathologies of the appendicular skeleton from normal appearances. 1.2 Describe, using appropriate terminology, the radiographic technique and patient care for routine examinations of the appendicular skeleton. 1.3 Use SI units appropriately, understand and explain the nature of electromagnetic radiation and how X-rays are produced including exposure factors.
02	2.1 Recognise common clinical indications for radiographic examinations of the appendicular skeleton . 2.2 Gain informed consent for, and perform, appropriate routine radiographic examinations of the appendicular skeleton safely and effectively. 2.3 Provide appropriate care and understand the need to ensure equality of service provision for a diverse population. 2.4 Evaluate radiographic images of the appendicular skeleton using appropriate terminology.
03	3.1 Demonstrate effective communication skills. 3.2 Reflect on learning experiences to benefit future development.

## Learning, Teaching and Assessment Strategy

Students will achieve the module learning outcomes by following an integrated approach to learning which is undertaken through both academic study and simulated clinical learning.

Key lectures which will introduce students to research informed radiographic principles, biological science and radiographic techniques including high quality patient care. These lectures, in combination with practical sessions, seminars and directed learning will develop the learning outcomes, Practical teaching in the X-ray clinical skills room and the utilisation of related simulation will develop the subject specific skills and understanding. The topics studied will allow the student to actively participate in X-ray examinations as and when appropriate. Students will study how x-rays are produced in appropriate depth to enable them to safely and appropriately use x-ray equipment to undertake these examinations.

Assessment of the achievement of learning outcomes 1.1, 1.2, 1.3, 1.4, 2.1, 2.2 will be undertaken by a computerised examination and online MCQ examination. Both assessments will be undertaken in a computer cluster on campus. The computerised examination will assess relevant anatomy, physiology and radiographic technique relevant to the appendicular skeleton. The online MCQ assessment will assess pathology and the physical sciences. Student's simulated and clinical learning is directed by the allocated portfolio. Clinically related learning objectives form part of the portfolio and ensure the students learning is appropriate to the module being studied and enables them to gain formative feedback before assessment of the required learning outcomes 2.2, 2.3, 3.1 and 3.2

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Examination - Closed Book	Computer based examination (1 Hr)	40%
Summative	Clinical Assessment	Paper-based practice simulation portfolio	30%
Summative	Online MCQ Examination	MCQ examination (1Hr)	30%

Reading List
To access the reading list for this module, please visit <a href="https://bradford.rl.talis.com/index.html">https://bradford.rl.talis.com/index.html</a>

*Please note:*

*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*

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