

Musculoskeletal and Comparative Anatomy

Module Code:	ARC7037-C
Academic Year:	2018-19
Credit Rating:	30
School:	School of Archaeological and Forensic Sciences
Subject Area:	Archaeology
FHEQ Level:	FHEQ Level 7 (Masters)

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Seminar	15
Laboratory	45
Directed Study	240

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 1 (Sep - Jan)

Module Aims

To provide students with a detailed knowledge of human musculo-skeletal anatomy, with an emphasis on a functional approach to the identification and description of fragmented human remains recovered from archaeological contexts.

To provide students with the ability to identify mammalian remains to species level.

To provide students with an understanding of the survival of soft tissue remains in archaeological settings.

Outline Syllabus

Anatomical Nomenclature and Introduction to Soft Tissues
 Faunal: introduction to faunal remains (lecture)
 The Pectoral Girdle and Arm: Biomechanics
 Faunal: fore and hind limbs
 The Forearm
 The Hands
 The Spine and Thorax Faunal: Vertebrae, scapula, pelvis
 The Pelvic Girdle
 The Leg and Knee
 The Feet in detail
 Faunal: locomotion & feet - metapodia, phalanges, carpals & tarsals
 The Cranium: Basic Structures
 The Neurocranium
 The Viscerocranium
 The Dentition in detail
 Faunal: crania, mandibles & teeth
 Faunal lecture: ageing
 Decomposition and preservation of soft tissues
 The analysis of soft tissues

Module Learning Outcomes

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

- 1 Demonstrate a working knowledge of human and mammalian musculo-skeletal anatomy that can be used to identify faunal bones and detailed knowledge of fragmentary human remains
- 2 Identify and describe human remains and will have an appreciation of the development and how ontogenetic changes have influenced human anatomy
- 3 Identify mammalian remains to species level.
- 4 Understand how soft tissue can be preserved in ancient human remains.
- 5 Make refined observational judgements, and record and communicate findings accurately.

Learning, Teaching and Assessment Strategy

Three-hour sessions will be in the form of laboratory practicals. In weeks 1-6, 8-12 there will be a 45 minutes specimen-based formative practical quiz prior to the laboratory practical session each week. Feedback is given by the students marking their quiz with the specimens present. Students will be able to use Directed Study for reading of literature detailed in the module documentation and for researching and preparing for coursework.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
------	--------	-------------	--------	-----------	---------------

Summative	Coursework	Practical Test	1 hour	25%	No
Summative	Coursework	Quiz	1 hour	25%	No
Summative	Coursework	Essay from a choice of topics regarding human anatomy/ soft tissue/ faunal remains	-3000 words	50%	Yes

Legacy Code (if applicable)

Reading List

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