

## Liverpool John Moores University

Title: HUMAN OSTEOLOGY  
Status: Definitive  
Code: **5008NATSCI** (101254)  
Version Start Date: 01-08-2016

Owning School/Faculty: Natural Sciences & Psychology  
Teaching School/Faculty: Natural Sciences & Psychology

| Team                   | Leader |
|------------------------|--------|
| Isabelle De Groote     | Y      |
| Joel Irish             |        |
| Constantine Eliopoulos |        |

**Academic Level:** FHEQ5      **Credit Value:** 24      **Total Delivered Hours:** 57  
**Total Learning Hours:** 240      **Private Study:** 183

### Delivery Options

Course typically offered: Standard Year Long

| Component | Contact Hours |
|-----------|---------------|
| Lecture   | 10            |
| Online    | 1             |
| Practical | 28            |
| Workshop  | 18            |

**Grading Basis:** 40 %

### Assessment Details

| Category | Short Description | Description                       | Weighting (%) | Exam Duration |
|----------|-------------------|-----------------------------------|---------------|---------------|
| Test     | Lab test 1        | Test of the appendicular skeleton | 40            |               |
| Test     | Lab test 2        | Test of the axial skeleton        | 60            |               |

### Aims

*To introduce the analysis of human bones and their implications for reconstructing identity and life history.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Use osteological material and osteometric equipment appropriately
- 2 Name the musculoskeletal elements of the appendicular skeleton
- 3 Name the musculoskeletal elements of the axial skeleton
- 4 Demonstrate a knowledge of the evolutionary reasons for variability in the skeleton
- 5 Curate osteological material effectively and understand the related ethical and legal issues.

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

|                               |   |   |   |   |
|-------------------------------|---|---|---|---|
| Test incl theory and practice | 1 | 2 | 4 | 5 |
| Test incl theory and practice | 1 | 3 | 4 | 5 |

## Outline Syllabus

*What the skeleton can tell us. Recovering and recording human remains. Curatorial skills for the osteologist. Anatomical orientation and terminology. Procedure of identifying bones. Distinguishing human from non-human bones. The appendicular skeleton. The axial skeleton. Skeletal development. The human dentition. Determining the number of individuals. Variations in the human skeleton. Variation in human dentition. Osteometry. Joint and skeletal anatomy.*

## Learning Activities

Material will be delivered through brief lectures followed by workshops and practical sessions.

## Notes

This module provides an introduction to the development and anatomy of the bones of the human skeleton with a view to identify human bones and teeth, their significance within the body, the landmarks and measurements used in the field of biological anthropology. Students will be trained in curatorial skills for the osteologist including washing, recording and boxing specimens. Curatorial knowledge of how human material should be stored (temperature, humidity, ethics and legal issues).