

|                                                    |                    |                                                |                  |
|----------------------------------------------------|--------------------|------------------------------------------------|------------------|
| <b>Module code: MOD010606</b>                      |                    | <b>Version: 1    Date Amended: 24/Sep/2024</b> |                  |
| <b>1. Module Title</b>                             |                    |                                                |                  |
| Musculoskeletal Anatomy and Physiology             |                    |                                                |                  |
| <b>2a. Module Leader</b>                           |                    |                                                |                  |
| Fiona Hamilton                                     |                    |                                                |                  |
| <b>2b. School</b>                                  |                    |                                                |                  |
| School of Allied Health and Social Care            |                    |                                                |                  |
| <b>2c. Faculty</b>                                 |                    |                                                |                  |
| Faculty of Health, Medicine and Social Care        |                    |                                                |                  |
| <b>3a. Level</b>                                   |                    |                                                |                  |
| 4                                                  |                    |                                                |                  |
| <b>3b. Module Type</b>                             |                    |                                                |                  |
| Theory and practice (fine graded)                  |                    |                                                |                  |
| <b>4a. Credits</b>                                 |                    |                                                |                  |
| 30                                                 |                    |                                                |                  |
| <b>4b. Study Hours</b>                             |                    |                                                |                  |
| 300                                                |                    |                                                |                  |
| <b>5. Restrictions</b>                             |                    |                                                |                  |
| <b>Type</b>                                        | <b>Module Code</b> | <b>Module Name</b>                             | <b>Condition</b> |
| Pre-requisites:                                    | None               |                                                |                  |
| Co-requisites:                                     | None               |                                                |                  |
| Exclusions:                                        | None               |                                                |                  |
| <b>Courses to which this module is restricted:</b> |                    |                                                |                  |

## LEARNING, TEACHING AND ASSESSMENT INFORMATION

### 6a. Module Description

This module starts your osteopathic journey into the essence of understanding how the body moves. A unique approach shows how supporting structures and systems affect muscle function (for example blood, lymph, hormones and skin). Assessment includes students being able to locate structures on their own body or that of a patient, and being able to show their understanding of which muscles (and nerves) are involved in specific movements.

### 6b. Outline Content

This module will explore the anatomy and physiology in health with a focus on:

- Introduction to anatomical and physiological principles, including homeostasis
- The structure & function of the musculoskeletal system and its associated structures, including: muscle, tendon, ligament, cartilage, bone, joints, nervous tissue, blood, lymph, hormones.
- Regional neuro-musculoskeletal anatomy of the:
  - The vertebral column
  - The upper limb
  - The lower limb
  - The thorax & pelvis
  - The head (not including the brain, eyes, ears or cranial nerves)

You will be assessed throughout the module with a variety of in class activities. The summative assessment consists of a practical and a written exam.

### 6c. Key Texts/Literature

The reading list to support this module is available at: <https://readinglists.aru.ac.uk/>

### 6d. Specialist Learning Resources

Osteology and other anatomy models

| 7. Learning Outcomes (threshold standards) |                                                             |                                                                                                                            |
|--------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| No.                                        | Type                                                        | On successful completion of this module the student will be expected to be able to:                                        |
| 1                                          | Knowledge and Understanding                                 | Identify and discuss the structure and function of the human body in health.                                               |
| 2                                          | Knowledge and Understanding                                 | Appreciate how an evidence based approach supports the study of the human body.                                            |
| 3                                          | Knowledge and Understanding                                 | Comprehend how neuromusculoskeletal anatomy and physiology underpins osteopathic practice                                  |
| 4                                          | Intellectual, practical, affective and transferrable skills | Confidently name and locate the structure and functions of key components of the musculoskeletal system (surface anatomy). |
| 5                                          | Intellectual, practical, affective and transferrable skills | Distinguish muscle groups linked to common movement patterns.                                                              |
| 6                                          | Intellectual, practical, affective and transferrable skills | Demonstrate how the study of the human body in health impacts upon the osteopathic practitioner.                           |

| 8a. Module Occurrence to which this MDF Refers |            |                                             |          |                  |
|------------------------------------------------|------------|---------------------------------------------|----------|------------------|
| Year                                           | Occurrence | Period                                      | Location | Mode of Delivery |
| 2026/7                                         | ZZF        | Template For Face To Face Learning Delivery |          | Face to Face     |

| 8b. Learning Activities for the above Module Occurrence |       |                   |                                                                                                          |
|---------------------------------------------------------|-------|-------------------|----------------------------------------------------------------------------------------------------------|
| Learning Activities                                     | Hours | Learning Outcomes | Details of Duration, frequency and other comments                                                        |
| Lectures                                                | 68    | 1-6               | Lectures and class sessions, with small group work and facilitated discussions where appropriate         |
| Other teacher managed learning                          | 0     | None              | None                                                                                                     |
| Student managed learning                                | 232   | 1-6               | Students are encouraged to make use of the models and specimens at the college to support their studies. |
| TOTAL:                                                  | 300   |                   |                                                                                                          |

| 9. Assessment for the above Module Occurrence |                   |                   |               |                         |                     |
|-----------------------------------------------|-------------------|-------------------|---------------|-------------------------|---------------------|
| Assessment No.                                | Assessment Method | Learning Outcomes | Weighting (%) | Fine Grade or Pass/Fail | Qualifying Mark (%) |
| 010                                           | Practical         | 4-6               | 40 (%)        | Fine Grade              | 30 (%)              |
| 30 minute practical exam                      |                   |                   |               |                         |                     |
| Assessment No.                                | Assessment Method | Learning Outcomes | Weighting (%) | Fine Grade or Pass/Fail | Qualifying Mark (%) |
| 011                                           | Examination       | 1-3               | 60 (%)        | Fine Grade              | 30 (%)              |
| 90 mins MCQ and SAQ.                          |                   |                   |               |                         |                     |

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7\*).

In addition, students are required to:

- (a) achieve the qualifying mark for each element of fine graded assessment as specified above
- (b) pass any pass/fail elements

[\* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]