

Biomechanical Techniques in Human Health and Performance

Duration: 3 months | Delivery: 8 days face to face | Start date: April 2025



Course Aim

To develop practical and analytical skills in biomechanical techniques and apply to clinical and community settings.

This 20 credit UK Level 7 module focuses on the expert application of biomechanical techniques. Students will learn theoretical principles and practical application of evaluative techniques such as force plates, electromyography (EMG) and motion capture. Students will learn to analyse this information and interpret data to enable them to integrate expertise into a rehabilitation plan including biofeedback, exercise and orthotic prescription. There will be focus on lower and upper limb musculoskeletal assessments in clinical and laboratory settings.

Learning Expectations

- Demonstrate critical understanding and evaluation of measurement outcomes to enable collaborative, person-centred consideration of management options and facilitate effective shared decision-making.
- Demonstrate competency working with specialist biomechanics equipment in a laboratory and clinical setting.
- Critically apply theoretical knowledge and understanding of biomechanical assessment tools to practical and clinical scenarios of patients with musculoskeletal conditions.



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School of Health
and Sport Sciences

Delivery

Delivery will be 1 day per week for 8 weeks at our Hope Park campus and will comprise (per week): lectures, tutorials, practical workshops and elearning.

Assessment

Assessment will comprise a practical report (100%). Upon successful completion, students will receive 20 credits at Masters Level (UK Level 7).

Dates and Duration

Starts April 2025 and takes 3 months to complete.

Entry requirements

Standard Entry Requirements:

- Normally a First or Second Class Honours Degree in a relevant healthcare profession such as physiotherapy, occupational therapy, podiatry, medicine, osteopathy, British Association of Sport Rehabilitators and Trainers (BASRaT) approved sports rehabilitation.
- Students whose first language is not English are normally required to have an IELTS 7 or other equivalent recognised English language qualification. In certain circumstances the University also permits study that students have already carried out at Postgraduate level to be taken into account.
- Interview may be required.

Additional Entry Requirements for students building towards an MSc Advanced Musculoskeletal Practice:

- Applicants should be at least 3 years qualified as a healthcare professional.
- Applicants should be working in a musculoskeletal setting with a suitable mentor in clinical practice.
- Applicants should hold an active registration with the HCPC (Health and Care Professions Council) and CSP (Chartered Society of Physiotherapy) or equivalent professional registration.

- Students building towards Musculoskeletal Association of Chartered Physiotherapists (MACP) must be qualified physiotherapists registered with the HCPC.

Progression

Successful participants may be able to progress to further 20 credit modules, either taken as stand-alone CPD, or built towards a Postgraduate Certificate Musculoskeletal Practice (FCP) (60 credits), an MSc Musculoskeletal Practice (180 credits) or an MSc Advanced Musculoskeletal Practice (180 credits). Progression to the MSc Advanced Musculoskeletal Practice is dependent on meeting the Additional Entry Requirements.

A route to membership of the MACP may be available to physiotherapists with HCPC registration. Students wishing to gain MACP membership must be qualified physiotherapists registered with the HCPC.

Cost

Home Students:

£845 (20% discount of full fee of £1,056 for 2024-25 entry only)

International Students:

£1,511 (20% discount of full fee of £1,889 for 2024-25 entry only)

How to apply

To apply or for more information please contact:

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Email: pld@hope.ac.uk

www.hope.ac.uk/pld/healthandsportsciencespld

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