

Liverpool John Moores University

Title: HUMAN MOVEMENT SCIENCE
Status: Definitive
Code: **6020SPOSCI** (117547)
Version Start Date: 01-08-2018

Owning School/Faculty: Sport and Exercise Sciences
Teaching School/Faculty: Sport and Exercise Sciences

Team	Leader
Gabor Barton	Y
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Academic Level: FHEQ6 **Credit Value:** 24 **Total Delivered Hours:** 46
Total Learning Hours: 240 **Private Study:** 194

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	34
Practical	10

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	pres	presentation injury mechanisms	50	
Exam	Exam	exam human movement principles	50	2

Aims

The aim of the course is to provide students with the knowledge of the application of biomechanical principles applied to the study of human locomotion, sports, injury,

performance analysis, tissue biomechanics, and movement rehabilitation.

Learning Outcomes

After completing the module the student should be able to:

- 1 Synthesise evidence that contributes to the understanding of injury mechanisms.
- 2 Critically evaluate the scientific principles and mechanisms involved in human movement.

Learning Outcomes of Assessments

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

presentation injury mechanisms	1
exam human movement principles	2

Outline Syllabus

Applications in health – gait analysis

Applications in sports – injury risk and mechanisms

Applications in sports – qualitative performance analysis

Applications in health and sports – physical examination

Applications in health and sports – tissue biomechanics

Applications in health – virtual rehabilitation

Learning Activities

The principal knowledge will be presented in lectures and demonstrations which the students complete with prescribed reading related to the lectures and practicals.

Notes

Human Movement Science gives you an opportunity to scientifically engage with the most interesting topics related to the wide definition of 'human movement'. You will benefit from staff expertise in a range of areas covering both health and sports applications delivered in batches of 2-6 weeks each. Theoretical foundations will be combined with practical skills enabling you to both develop an understanding and to apply your knowledge.