# Human Movement Sciences: Sport, Exercise & Health

## Concept

### Research Master’s Programme 2017-2018

### YEAR 1

<table>
<thead>
<tr>
<th>Block 1</th>
<th>Block 2</th>
<th>Block 3</th>
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<tbody>
<tr>
<td>September – October (12 EC)</td>
<td>November – December (12 EC)</td>
<td>January (6 EC)</td>
<td>February – March (12 EC)</td>
<td>April – May (12 EC)</td>
<td>June (6 EC)</td>
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</tbody>
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**Obligatory courses**

- Exercise immunology (6 EC)
- Neurosciences (6 EC)
- Treating locomotor disease (3 or 6 EC)
- Molecular cell biology (3 EC)
- Treating locomotor disease (3 or 6 EC)
- Advanced methodology (3 EC)
- Tissue engineering and mechanobiology (3 EC)
- Scientific Communication (3 EC)

**Optional courses**

- Concepts in human Movement Sciences (6 EC)
- Energy flow models (3 EC)
- Maximal neuromuscular performance (3 EC)
- Topics in rehabilitation (6 EC)
- Coordination dynamics (6 EC)
- Perceptual-motor learning (6 EC)
- Training, aging and disuse (6 EC)
- Applied biomechanics (6 EC)
- Clinical exercise physiology (3 EC)
- 3D Kinematics (3 EC)
- Perception for action (3 EC)
- Mechanical and adaptive myology (3 EC)
- Electromyography (3 EC)
- Neuromechanics (3 EC)
- Time series analysis (6 EC)
- Entrepreneurship in HMS (6 EC)

### YEAR 2

- Research master research project (60 EC) or minor & major research project (24 & 36 EC)