



## KURSPLAN

# Klinisk gånganalys, 7,5 högskolepoäng

*Clinical Gait Analysis, 7.5 credits*

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Kurskod:	HGAK11	Utbildningsnivå:	Grundnivå
Fastställd av:	Utbildningsrådet 2011-04-11	Utbildningsområde:	Medicinska området
Gäller fr.o.m.:	2011-12-12	Ämnesgrupp:	MT2
Version:	1	Fördjupning:	G1F
		Huvudområde:	Ortopedteknik

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## Lärandemål

Upon completion of the course students should have the:

### *Kunskap och förståelse*

- demonstrate a high level of knowledge related to the technical background of acquiring clinical gait data
- compare results of instrumented gait analysis to findings presented in the scientific literature.

### *Färdighet och förmåga*

- critically evaluate methods of acquiring gait data and draw conclusions regarding which method(s) to use in a given setting
- independently collect and process gait analysis data from patients with an orthopaedic or neurological deficit
- critically evaluate the function of orthopaedic devices based upon the outcomes of gait analysis and recommend alterations or improvements
- in both oral and written formats, present and discuss the results of gait analysis to one's peers and to other health professionals.

### *Värderingsförmåga och förhållningssätt*

- demonstrate an understanding of the benefits of collaboration and transfer of knowledge from/to other professional groups
- critically evaluate personal needs for knowledge and competence development for the profession as a whole
- demonstrate professionalism with patients undergoing a gait assessment.

## Innehåll

- review of normal and pathological gait kinematics and kinetics
- interpreting the results of instrumented gait analysis
- gait analysis systems including three dimensional gait analysis, EMG and pressure measurement
- practical use of gait analysis systems
- applied gait analysis case studies

## Undervisningsformer

This course is presented in the form of lectures, group work, group presentations and laboratory sessions.

Undervisningen bedrivs på engelska.

### Förkunskapskrav

General entry requirements and passing grade in the biomechanics course 15 credits or equivalent.

### Examination och betyg

Kursen bedöms med betygen A, B, C, D, E, FX eller F.

Examination will be based upon one group oral presentation and one individual written assignment.

A university lecturer serves as the course examiner.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Examination	7,5 hp	A/B/C/D/E/FX/F

### Övrigt

#### Attendance requirements

During the course attendance is compulsory to laboratory sessions and group presentations.

### Kurslitteratur

Kirtley, C (2006). *Clinical gait analysis: Theory and Practice*. Washington: Churchill Livingstone.

Whittle, M. (2007). *An Introduction to Gait Analysis*. Oxford: Elsevier.

The most recent editions of the course literature should be used.

Additional relevant journal articles.

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Department of Rehabilitation