



KURSPLAN

Scientific Methods and Statistics, 7,5 högskolepoäng

Scientific Methods and Statistics, 7.5 credits

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|------------------------|------------------------------|---------------------------|--------------------|
| Kurskod: | HSCG10 | Utbildningsnivå: | Grundnivå |
| Fastställd av: | Utbildningsrådet 2018-05-09 | Utbildningsområde: | Medicinska området |
| Gäller fr.o.m.: | 2020-01-20 | Ämnesgrupp: | MT2 |
| Version: | 1 | Fördjupning: | G1N |
| Diarienummer: | Department of Rehabilitation | Huvudområde: | Ortopedteknik |

Lärandemål

Upon completion of the course students should have the ability to:

Kunskap och förståelse

- describe and discuss various quantitative research and analysis methods
- describe and discuss various qualitative research and analysis methods.

Färdighet och förmåga

- critically evaluate research methods in relation to a well-defined aim
- determine and apply appropriate statistical tests for different types of empirical data
- determine and apply appropriate methods for analysis of qualitative data
- use statistical packages (e.g. SPSS and Excel) and apply common statistical tests.

Värderingsförmåga och förhållningssätt

- appreciate the importance of research ethics
- develop independent thinking for critically analysing research reports.

Innehåll

- research ethics
- qualitative data collection methods
- common methods for analysing qualitative data
- quantitative research design
- data management and descriptive statistics
- hypothesis testing (including tests between two or more groups)
- measurement error
- reliability and validity
- statistical power

Undervisningsformer

The course is conducted in the form of online instructional content, lectures and tutorials.

Undervisningen bedrivs på engelska.

Förkunskapskrav

General entry requirements.

Examination och betyg

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

The course examination will be based upon a two-part individual examination (one part is conducted using statistical analysis software).

A university lecturer will serve as examiner for this course.

Poängregistrering av examinationen för kursen sker enligt följande system:

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

Kurslitteratur