



# HN2002 Research Methods and Study Design 6.0 credits

Forskningsmetodik och undersökningsmetoder

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

Course syllabus for HN2002 valid from Autumn 2009

## Grading scale

A, B, C, D, E, FX, F

## Education cycle

Second cycle

## Main field of study

Medical Engineering

## Specific prerequisites

Exam of at least 180 hp / 120 p from Swedish university or corresponding exam from another country within one of the fields health science, engineering or social/behavioural sciences or another relevant exam. At least 60 hp / 40 p of these should be referred to one of the fields anatomy, physiology, psychology, sociology, pedagogics, cognitive science, production engineering, product design or another relevant field. Further, Swedish B and English A is required. Exceptions from this may be made if an applicant is considered to fulfil the requirements at the registration for the course, according to the requirements of KTH.

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## Intended learning outcomes

The students shall after their studies be able to:

- understand differences and relationships between different scientific perspectives and methods and have well grounded reflections about this
- apply knowledge of how to design a study, collect, analyze and interpret data in different types of study
- use some commonly used methods within research and development in the field of ergonomics and HTO
- critically assess research reports and other studies within the field of ergonomics and HTO

## Course contents

- Theories on knowledge, science and methods
- Quantitative and qualitative methods
- Data collection methods
- Analysis of data
- The research process and report writing

## Course literature

- Williamson, K. (2002) Research methods for students, academics and professionals, Wagga Wagga NSW (2nd ed.)
- Ejlertsson, G. (2003) Statistik för hälsovetenskaperna, Studentlitteratur.
- Handouts.

## Examination

- INL1 - Assignment, 1.0 credits, grading scale: P, F
- PRO1 - Project, 2.0 credits, grading scale: P, F
- SEM1 - Seminar, 1.0 credits, grading scale: P, F
- TEN1 - Examination, 2.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

The grading is done using the following scale: A, B, C, D, E, F, Fx, and is based on the examinations in the course.

## **Ethical approach**

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.