



Course syllabus

Faculty of Health and Life Sciences
Department of Health and Caring Sciences

4VÅ622 Vetenskapliga metoder, 7,5 högskolepoäng
Scientific methods, 7.5 credits

Main field of study

Caring Science

Subject Group

Nursing Science

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved by Faculty of Health and Life Sciences 2015-10-05
The course syllabus is valid from spring semester 2016

Prerequisites

General entry requirements for second cycle level study and specific requirements:

- Degree of Bachelor of Science in Nursing or its equivalent
- Registered nurse
- Degree of Bachelor of Science in Caring Science or its equivalent
- Professional experience as a nurse equivalent to one year's full-time work
- Swedish B/Swedish 3
- English A/English 5

Objectives

After completing the course the student will be expected to be able to:

- Make general comparisons between quantitative and qualitative research approaches within the field of caring sciences in order to be able to determine which method can be most suitable for different research questions
- Relate to concepts from the caring sciences and the philosophy of science for a chosen research question/problem and motivate the ways in which the concepts are relevant in the context
- Be prepared to be an active consumer of research knowledge who is expected to carry out evidence-based nursing by reviewing critically and assessing scientific studies that are published in scientific journals
- Independently carry out a minor data collection concerning a research question using both quantitative and qualitative methodology and analyze the material with a suitable method and make conclusions about the transferability of the results
- Independently write a research plan for a degree project with scientifically

linguistic rigour and a well-processed presentation of a research question, previous research, choice of methodology and implementation taking ethical principles into consideration

Content

- Philosophy of science
- Core competences with a specific focus on evidence-based nursing
- Research designs for qualitative and quantitative research
- Information retrieval
- Interview, questionnaire, meta-analysis, analytical statistics
- Research ethics
- Measuring instruments
- Validity, reliability, transferability in quantitative methodology, criteria for trustworthiness and transferability in qualitative research

Type of Instruction

Teaching is built on a problem-oriented method of working with active knowledge-seeking, critical thinking and problem solving. Teaching consists of lectures, group work and seminars.

Education is mostly net-based at campus Kalmar.

Obligatory attendance is specified in the schedule and/or study guidelines.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

The examination consists of three written portfolio examinations and a written research plan.

In order to gain the Pass grade the expected learning outcomes must have been achieved and will be assessed in accordance with the assessment criteria for the course.

The opportunity to retake the examination is offered in accordance with the Local Rules for Examinations on the first and second levels at Linnaeus University (Current version).

Course Evaluation

A course evaluation will be carried out during the course or soon after. The result and the analysis of the course evaluation will be communicated to the students who have completed the course and presented to those who take the course the next time it is given. The course evaluation is anonymous.

Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: 4VÅ620 Scientific methods, 7.5 credits

Other

The maximum number of occasions a student can take an examination is five.

Required Reading and Additional Study Material

Alvesson, M. & Sköldböck, K. (latest edition). *Tolkning och reflektion: Vetenskapsteori och tolkning*. Lund: Studentlitteratur, (400 p).

Ejlertsson, G. (latest edition): *Statistik för hälsovetenskaperna*. Lund: Studentlitteratur. (303 p.)

Granskär, M & Höglund-Nielsen, B. (latest edition). *Tillämpad kvalitativ forskning inom Hälso-och sjukvård*. Lund: Studentlitteratur, (200 p).

Greenhalgh, T. (latest edition). *Att läsa vetenskapliga artiklar och rapporter - grunden för evidensbaserad vård*. Lund: Studentlitteratur.

Henricsen, M. (Red.). (latest edition). *Vetenskaplig teori och metod - från idé till examination inom omvårdnad*. Lund: Studentlitteratur, (500 p).

Wiklund, L. & Bergbom, I. (latest edition). *Vårdvetenskapliga begrepp i teori och praktik*. Lund: Studentlitteratur.

Current regulations, statutes and scientific articles will be added.