



Course syllabus

Faculty of Health and Life Sciences

Department of Health and Caring Sciences

2VÅ62E Analysmetoder och självständigt arbete i vårdvetenskap,
22,5 högskolepoäng

2VÅ62E Analytical Methods and Independent work in Caring
Science, 22.5 credits

Main field of study

Caring Science

Subject Group

Nursing Science

Level of classification

First Level

Progression

G2E

Date of Ratification

Approved by Faculty of Health and Life Sciences 2021-07-05

The course syllabus is valid from spring semester 2022

Prerequisites

Caring science 30 credits, including at least one 7.5-credit course in research methodology

1MC607 Anatomy, Physiology and Microbiology, or the equivalent

1MC610 Human Illnesses I and drug calculation 1 credit, or the equivalent

1VÅ615 Knowledge of the Nursing Profession I, or the equivalent.

Objectives

Module I. Analytical methods, 7.5 credits

After completing the module, the student should be able to:

Knowledge and understanding

- A1 explain key concepts in quantitative analysis methods
- A2 explain key concepts in qualitative analysis methods.

Competence and skills

- B1 apply quantitative analysis methods
- B2 apply qualitative analysis methods.

Judgement and approach

- C1 evaluate research knowledge in quantitative analysis methods
- C2 evaluate scientific knowledge in qualitative analysis methods.

Module II. Independent degree project in caring science

After completing the module, the student should be able to:

Knowledge and understanding

- D1 identify, problematise, and delimit relevant areas of inquiry for a project within the scope of the registered nurse's expertise
- D2 describe the current state of research/knowledge and a relevant theoretical framework for the degree project
- D3 select and explain relevant methods for data collection and analysis within the chosen project design
- D4 discuss research-ethical considerations relevant to the chosen project design.

Competence and skills

- E1 design an independent scholarly project
- E2 carry out an independent project within specified timeframes
- E3 independently search for, critically examine, evaluate, and apply research knowledge
- E4 critically discuss and evaluate the chosen subject area and project design
- E5 critically discuss and evaluate the relevance and significance of their own findings within the registered nurse's area of expertise
- E6 defend their own project and peer-review a fellow student's independent project in dialogue.

Judgement and approach

- F1 evaluate research knowledge in relation to the registered nurse's area of expertise
- F2 evaluate research-ethical and societal aspects in relation to the independent project
- F3 reflect upon and evaluate the results of the independent project and propose new research questions based on this
- F4 demonstrate an independent and responsible approach within the scope of the independent project.

Content

Module I. Analytical methods, 7.5 credits

- Statistical analysis of quantitative data
- Analysis of qualitative data
- Literature search in scholarly databases
- Quality review of scientific articles
- Academic writing
- Design and presentation of a project plan as the basis for the independent project

Module II. Independent degree project in caring science

- Planning and implementation of an independent project in caring science
- Project defence and project peer review

Type of Instruction

Instruction is delivered in the form of lectures, workshops, seminars, group work, and supervision.

Examination

The examination of the course is divided as follows:

Code	Designation	Grade	Credits
2201	Statistical analysis of quantitative data, take-home exam	U/G	3,50
2202	Analysis of qualitative data, written take-home exam	U/G	4,00
2203	Independent degree project in Caring science	U/G/VG	15,00

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

Module I is examined through a written individual take-home exam in qualitative analysis methods (4 credits) and a written individual take-home exam in quantitative analysis methods (3.5 credits). Module II is examined through an independent project – including project defence and project peer review – and active participation in the final seminars (15 credits).

The course as a whole is assessed with the grades Fail, Pass, or Pass with Distinction (22.5 credits). The final grade for the course is issued only when all examination assignments have been passed. The grading criteria are provided for each examination assignment and form the basis for grading. To receive a Pass, the student must have received this grade for all the examination assignments in Module I and Module II. To receive a Pass with Distinction as the final grade, the student must have received a Pass for Module I and a Pass with Distinction for Module II.

Resit examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to adapt the exam or to let the student conduct the exam in an alternative way.

Objectives achievement

The examination elements are linked to the course objectives in the following ways:

Goal	2201	2202	2203

Course Evaluation

During or shortly after the course, a course evaluation should be conducted. The result and analysis of the course evaluation should be promptly communicated to the students who have taken the course. Students who are taking the course when it is offered the next time should be informed of the result at the course introduction. The course evaluation is anonymous.

Required Reading and Additional Study Material

Birkler, J. (2012). *Vetenskapsteori: En grundbok* (2nd ed.). Liber, (approx. 50 pages). ISBN : 9789147019939

Ejlertsson, G. (2019). *Statistik för hälsovetenskaperna* (3rd ed.). Studentlitteratur, (approx. 200 pages). ISBN 9789144122694

Granskär, M. & Höglund Nielsen, B. (eds). (2017). *Tillämpad kvalitativ forskning inom hälso- och sjukvård* (3rd ed.). Studentlitteratur, (approx. 90 pages). ISBN 9789144118635

Henricson, M. (ed). (2017). *Vetenskaplig teori och metod, från idé till examination inom omvårdnad* (2nd ed.). Studentlitteratur, (approx. 200 pages). ISBN 9789144113289

Kristensson, J. (2014). *Handbok i uppsatsskrivande och forskningsmetodik för studenter inom hälso- och vårdvetenskap*. Natur och Kultur, (approx. 50 pages). ISBN 9789127131200

Polit, D.F. & Beck, C.T. (2020). *Nursing research. Generating and Assessing Evidence for Nursing Practice* (11th ed.). Wolters Kluwer Health, (approx. 75 pages). ISBN 9781975154141

Sandman, L. & Kjellström, S. (2018). *Etikboken: etik för vårdande yrken* (2nd ed.). Studentlitteratur, (approx. 25 sidor). ISBN 9789144120539

The focus of the independent project determines which chapters of the above reading the student should choose to study in depth.

Research articles will be added to the above.