



Faculty of Medicine

SJSD23, Theory of Science and Method, 7.5 credits

Vetenskapsteori och metod, 7,5 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by The Nursing, Radiography, and Reproductive, Perinatal and Sexual Health Programmes Board on 2016-12-08 to be valid from 2017-01-16, autumn semester 2017.

General Information

The course is included as a compulsory component in the Bachelor of Science programme in Nursing comprising 180 credits. It complies with the guidelines of the Higher Education Ordinance (SFS 1993:100 with later amendments).

Language of instruction: Swedish
Some components may be in English.

Main field of studies

Nursing

Depth of study relative to the degree requirements

G1N, First cycle, has only upper-secondary level entry requirements

Learning outcomes

Knowledge and understanding

On completion of the course, the students shall be able to

- explain the principles of scientific evidence
- compare the quantitative research process to the qualitative one

- explain and compare fundamental scientific concepts
- explain the principles of research ethics

Competence and skills

On completion of the course, the students shall be able to

- use databases to systematically seek literature
- perform basic quality reviews of research

Judgement and approach

On completion of the course, the students shall be able to

- critically assess research with regard to quality and research ethics

Course content

The research process

Basic research ethics

Basic statistics

Basic theory of science

Quantitative and qualitative research methods

Literature searching

Quality review of research

Concepts of evidence

Course design

The teaching and learning activities are designed so as to enable students to develop a specialised understanding and are characterised by an active search for knowledge, problem solving, reflection and critical analysis. Among the work methods used are independent study, group work, peer review, skills training, seminars and lectures.

Absence from compulsory learning activities can be compensated for by other learning activities.

Assessment

One regular examination and two re-sits are organised for each assessed component. Students who do not achieve a pass on any of these occasions will be able to retake the examination on a later occasion. A student who has failed an examination twice is entitled to request that another examiner be appointed by the programme director or equivalent.

At re-examination, individual examination may replace group examination.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass.

For a pass on the course, the student must have passed all assessed components.

Entry requirements

General and courses corresponding to the following Swedish Upper Secondary School Programs: Mathematics 2, Science 2, and Social Studies 1b/1a1+1a2. (Biology 1+Chemistry 1+Physics 1a/1b1+1b2 equals Science 1+2)

Further information

The courses are to be studied in the order they are offered.

Subcourses in SJSD23, Theory of Science and Method

Applies from H17

1601 Evidence, 2,0 hp
Grading scale: Fail, Pass
Written and oral group assignment including individual assessment.

1602 Scientific Concepts and Methods, 4,5 hp
Grading scale: Fail, Pass
Individual written invigilated exam.

Compulsory learning activity:

The research process based on qualitative and quantitative approaches.

1603 Research Ethics, 1,0 hp
Grading scale: Fail, Pass
Written and oral group assignment including individual assessment.