

Course syllabus for

# Scientific theory and research methods, 7.5 credits

Vetenskaplig teori och metod, 7.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

Please note that the course syllabus is available in the following versions:

Autumn2007, Autumn2008, Spring2011, Autumn2011

Course code 2SP000

Course name Scientific theory and research methods

Credits 7.5 credits

Form of Education Higher Education, study regulation 2007

Main field of study Nursing

Level AV - Second cycle

Grading scale Pass with distinction, Pass, Fail

Department Department of Neurobiology, Care Sciences and Society

Decided by Programnämnden för sjuksköterskeutbildning och

specialistutbildningar för sjuksköterskor

Decision date 2007-06-05

Revised by Programnämnd 9

Last revision 2010-11-03 Course syllabus valid from Spring 2011

# Specific entry requirements

Qualification as a nurse certified by the National Board of Health and Welfare

## **Objectives**

The aims of the course The aims of the course are that the students should have advanced their knowledge and understanding of scientific theory and method, research ethics and in the application of research nursing science with a focus on the specialist area. Furthermore, the student should have acquired an advanced scientific, critically reflective and research-ethical attitude. On completion of the course, the student should be able to: explain and analyse science and knowledge concepts related to nursing science directed towards the specialist area, argue for strengths and weaknesses of various research designs and methods, identify and analyse research-ethical aspects in research and

development, critically review and evaluate scientific results of quantitative and qualitative research, and systematic research surveys of relevance to nursing in the specialist area, argue for and formulate scientific issues based on an identified problem area of relevance to nursing in the specialist area

## **Content**

- science theory and method - Research ethics - quantitative research methodology including validity and reliability, research design, data collection methods and statistical analytical methods - qualitative research orientation/methodology including research design, data collection and analytical methods and criteria for validity and credibility - critical review (quality, assessment and interpretation) of scientific literature

# **Teaching methods**

The working methods of the course consist of introductory lectures and student-activating teaching - and working methods (individually, in groups and in seminars) on the basis of a, primarily, problem-oriented approach to learning. For self-study, work in groups and seminars, a web-based support for information and communication (PingPong) will be used. Work in groups and active participation in seminars and attendance at all scheduled group meetings is compulsory. The course is given both as distance education and as campus education. In the distance education, the number of physical meetings is limited to at most 2 days/7.5 credits.

## **Examination**

In case of absence from compulsory parts, turn to the course director. The examination is constituted by an individual written examination. The examination comprises all learning outcomes of the course. The grading system is Failed/Passed/Passed with distinction. A student without approved results after three completed examinations may be offered to take the course once more. However, there are at most six examination opportunities for each course. Examination times are announced at the beginning of the course.

## Other directives

Course evaluation takes place in accordance with the guidelines established by the Board of Education.

## Literature and other teaching aids

Polit, Denise F.; Beck, Cheryl Tatano

Nursing research: generating and assessing evidence for nursing practice

8. ed.: Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins, cop. 2008 - xviii, 796 s.

ISBN:978-0-7817-9468-8 (alk. paper) LIBRIS-ID:10504332

URL: http://www.loc.gov/catdir/toc/ecip0711/2007006184.html

Library search

Ludvigsson, Jonas F.

Att börja forska - inom medicin och vårdvetenskap

Lund: Studentlitteratur, 2002 - 352 s.

ISBN:91-44-01644-1

Library search

Olsson, Henny; Sörensen, Stefan

Course code: 2SP000

## Forskningsprocessen: kvalitativa och kvantitativa perspektiv

2. uppl. : Stockholm : Liber, 2007 - 190 s.

ISBN:978-91-47-08408-1 LIBRIS-ID:10349663

Library search

Granskär, Monica; Höglund-Nielsen, Birgitta

## Tillämpad kvalitativ forskning inom hälso- och sjukvård

1: Lund: Studentlitteratur, 2008 - 210 pp

ISBN:9789144001555

Library search

Hulley, Stephen B.; Cummings, Steven R.; Browner, Warren S.

## Designing clinical research

3. ed.: Philadelphia: Lippincott Williams & Wilkins, 2006 - 384 s.

ISBN:0-7817-8210-4

Library search

Johansson, Lars-Göran

## Introduktion till vetenskapsteorin

2., [utök.] uppl. : Stockholm : Thales, 2003 - 263 s.

ISBN:91-7235-037-7 LIBRIS-ID:9174657

Library search

Malterud, Kirsti

#### Kvalitativa metoder i medicinsk forskning

Lund: Studentlitteratur, 2009

ISBN:9789144052328

Library search

Nortvedt, Per; Grimen, Harald

## Sensibilitet och reflektion: filosofi och vetenskapsteori för vårdprofessioner

Göteborg: Daidalos, 2006 - 301 s.

ISBN:91-7173-232-2

Library search