



**Karolinska
Institutet**

Course syllabus for

Research Methods, 6 credits

Forskningsmetodik, 6 hp

This course syllabus is valid from autumn 2018.

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

[Spring2018](#) , [Autumn2018](#) , [Autumn2019](#) , [Autumn2020](#) , [Autumn2021](#) , [Spring2022](#) , [Autumn2022](#)

Course code	1SJ020
Course name	Research Methods
Credits	6 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Nursing
Level	G1 - First cycle 1
Grading scale	Pass, Fail
Department	Department of Neurobiology, Care Sciences and Society
Decided by	Utbildningsnämnden NVS
Decision date	2017-10-25
Revised by	Education committee NVS
Last revision	2018-06-14
Course syllabus valid from	Autumn 2018

Specific entry requirements

Admission to semester 2:

Part 1: Research methodology, 3 credits and completed field studies in the course Nurse's profession and nursing as science (1SJ010) as well as Component 3: Clinical skills in the course Anatomy and physiology (1SJ019).

Objectives

The general aim of the course is that students receive basic knowledge of scientific methods and understand how they form the basis for research results and for evidence-based nursing.

Learning outcomes

Knowledge and understanding

On completion of the course, students should be able to:

- identify and formulate research questions of relevance to nursing
- describe and explain how the research question steers the study design

- describe the most commonly used types of study design as well as methods for sampling, data collection and data analysis
- explain how research results are presented based on the study's method
- define and explain evidence-based nursing

Skills and abilities

On completion of the course, students should be able to:

- Systematically search for and identify scientific articles of relevance to nursing and extract relevant results from them
- use scientific language, write clearly, and use appropriate reference systems

Values and perspectives

On completion of the course, students should be able to:

- critically review and evaluate current nursing research with a focus on methods
- evaluate ethical aspects of nursing research

Content

- Evidence-based nursing
- Formulating a research question
- Research design
- Methods for sampling and data collection in qualitative and quantitative research
- Basic descriptive and analytical statistics
- Basic qualitative analytical methods
- Analysis and review of scientific studies with a focus on method
- Use of scientific databases to find information
- Principles of research ethics

Teaching methods

The working methods of the course intend to support the student's self-governing and collaborative learning and to train a scientific approach which implies active knowledge acquisition, problem-solving and critical reflection.

The course is based on lectures, seminars, group-based learning, reading, digital tests, and a group project.

The course coordinator determines how absence from compulsory learning activities can be compensated. Until the student has participated in the compulsory course activities (or compensated any absence with assigned tasks in accordance with instructions from the course coordinator) the final study results can not be reported. Absence from a mandatory course activity could mean that the student cannot do the activity until the next time the course is offered.

Distance learning is web-based and is based on independent and collaborative learning. The course uses a variety of pedagogical methods including individual study assignments, project work, work in groups, virtual discussions, seminars, workshops and lectures. Teacher support is offered via web-based learning management system. The number of physical course meetings on course location is limited to at most 2 days/7.5 credits.

Examination

Course completion is assessed through an individual written digital examination. The grading scale is

pass/fail Pass/fail

In order to pass the course the student must demonstrate achievement of the course's learning outcomes by passing the course exam and by actively participating in compulsory course activities.

Students who do not pass the regular examination are entitled to re-take the examination at five more occasions. A student who has not achieved a passing grade after taking the examination three times can take parts of the course or the whole course again. Being able to retake all or parts of the course is subject to availability. If the student has failed six examinations/tests, no additional examination is given. Submission of a blank exam is counted as a submitted examination. If a student registers for but does not participate in the examination, it does not count as a submitted examination. An electronic examination that has been opened via the learning management system counts as an examination session even if the examination is not submitted. Late submissions of examinations are not accepted. Students who have not submitted on time are referred to the next examination session.

Transitional provisions

If the course has ceased, changed considerably in content, or substantially changed its reading list, the student may take three additional tests (excluding regular test) on the earlier contents or the previous literature for up to one year after the course changes have been made.

Other directives

The course evaluation will be conducted according to the guidelines that are established by the Board of Higher Education.

Literature and other teaching aids

Polit, Denise F.; Beck, Cheryl Tatano

Essentials of nursing research : appraising evidence for nursing practice.

9. ed. : Philadelphia : Wolters Kluwer, cop. 2018 - xxii, 442 s.

ISBN:978-1-4963-5835-6 LIBRIS-ID:20512452

[Library search](#)

Vetenskaplig teori och metod : från idé till examination inom omvårdnad

Henricson, Maria

Andra upplagan : Lund : Studentlitteratur AB, 2017 - 510 sidor

ISBN:978-91-44-11328-9 LIBRIS-ID:20848026

[Library search](#)

Willman, Ania

Evidensbaserad omvårdnad : en bro mellan forskning och klinisk verksamhet

4., [rev.] uppl. : Lund : Studentlitteratur, 2016 - 186 s.

ISBN:9789144109022 LIBRIS-ID:19090791

[Library search](#)

Olsson, Henny; Sörensen, Stefan

Forskningsprocessen : kvalitativa och kvantitativa perspektiv

3. uppl. : Stockholm : Liber, 2011 - 328 s.

ISBN:91-47-10051-6 LIBRIS-ID:12233128

[Library search](#)

Ejlertsson, Göran

Statistik för hälsovetenskaper

Lund : Studentlitteratur, 2003 - 275 s.

ISBN:91-44-03123-8 LIBRIS-ID:8353333

[Library search](#)

Tillämpad kvalitativ forskning inom hälso- och sjukvård

Höglund-Nielsen, Birgitta; Granskär, Monica

Tredje upplagan : Lund : Studentlitteratur, [2017] - 262 sidor

ISBN:978-91-44-11863-5 LIBRIS-ID:21385235

[Library search](#)