



Faculty of Medicine

## MEVN41, Scientific Research Design, 7.5 credits

*Vetenskaplig design, 7,5 högskolepoäng*

Second Cycle / Avancerad nivå

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### Details of approval

The syllabus was approved by The Master's Programmes Board on 2018-10-23 to be valid from 2018-10-24, autumn semester 2019.

### General Information

The course is a compulsory course in the Master's (120 credits) programme in medical science.

*Language of instruction:* English

#### *Main field of studies*

Physiotherapy

Radiography

Occupational Therapy

Audiology

Reproductive, Perinatal and Sexual Health

Nursing

Speech and Language Pathology

#### *Depth of study relative to the degree requirements*

A1N, Second cycle, has only first-cycle course/s as entry requirements

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### Learning outcomes

## **Knowledge and understanding**

On completion of the course, students shall be able to

- discuss and explain scientific methods and concepts from a health science perspective
- discuss choice of research questions and methods in health science research from a diversity perspective
- identify and discuss basic research-ethical considerations
- identify and explain principles and methodology for development of evidence-based health care.

## **Competence and skills**

On completion of the course, students shall be able to

- adopt a scientific approach to identify, formulate, analyse and reflect on health sciences issues
- systematically search for, critically assess and interpret scientific literature as a basis for an individual assignment
- select, discuss and argue for choice of design and method in relation to a research question they have defined

## **Judgement and approach**

On completion of the course, students shall be able to

- apply basic research-ethical considerations in relation to a research question they have defined

## **Course content**

- Quantitative and qualitative scientific design, method and concepts
- Evidence-based healthcare
- Research ethics
- Diversity in health science research

## **Course design**

The course is conducted partly as online studies, with teaching and seminar days in Lund. The teaching adopts a problem-based approach using the students' current knowledge, skills and experiences to practise active searching for knowledge, critical thinking and problem-solving. Working methods consist of independent work supplemented by lectures, seminars and group discussions.

## **Assessment**

The course is assessed through three exam components:

Basic quantitative and qualitative method (2 credits): Basic aspects of qualitative and quantitative design, in which students are to account for and argue in favour of methodological positions and interpretations in relation to a defined research question. Written assignments.

Course portfolio (2 credits): Active participation in all seminars and discussions. Written assignments and peer review of fellow students' assignments.

Project description (3.5 credits): Written assignment in the form of a project description containing a defined research question with a proposal, description and arguments relating to the chosen design and method. Students should also discuss the choice of research question as well as method and design based on both an ethics and diversity perspective.

Other forms of examination can be used if special circumstances apply

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

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

## **Grades**

Marking scale: Fail, Pass.

## **Entry requirements**

To be admitted to the course, students must have a Bachelor's degree or equivalent (180 credits, including 15 credits of project work) in Occupational Therapy, Audiology, Speech and Language Pathology, Physiotherapy, Nursing or Diagnostic Radiology Nursing, or the same level of qualification in Medical Science.

## Subcourses in MEVN41, Scientific Research Design

Applies from H19

- 1901 Fundamental quantitative and qualitative scientific methods, 2,0 hp  
Grading scale: Fail, Pass
- 1902 Course portfolio, 2,0 hp  
Grading scale: Fail, Pass
- 1903 Project description, 3,5 hp  
Grading scale: Fail, Pass