



Faculty of Health, Science and Technology  
Nursing Science

# Syllabus

## Scientific method IV

<b>Course Code:</b>	OMAD12
<b>Course Title:</b>	Scientific method IV <i>Scientific method IV</i>
<b>Credits:</b>	7.5
<b>Degree Level:</b>	Master's level
<b>Progressive Specialisation:</b>	Second cycle, has only first-cycle course/s as entry requirements (A1N)

**Major Field of Study:**  
OMA (Nursing Science)

### Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2015-03-09, and is valid from the Autumn semester 2015 at Karlstad University.

### Prerequisites

Degree in Nursing 180 ECTS cr including a degree project 15 ECTS cr or a Bachelor's Degree in Nursing, or equivalent. Upper secondary level Swedish 3 or B/Sw2 B or 3, and English 6 or A, or equivalent.

### Learning Outcomes

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

- identify and compare different science paradigm,
- identify and reflect on ethical issues and considerations in research,
- describe and analyse qualitative methods and assess their validity and trustworthiness,
- describe and analyse quantitative methods and assess their validity and reliability,
- critically examine questionnaires/assessment instruments and their relevance to nursing

### Content

Instruction is in the form of lectures, assignments and seminars.

This is a distance learning course using different forms of ICT.

Theory of science with an emphasis on the differences and similarities between science paradigms are studied. Qualitative and quantitative studies in nursing research are studied in terms of purpose, design, data collection and analysis methods. Concepts such as reliability, validity and trustworthiness are studied and also how different statistical methods are used. Students apply interview methodology and transcribed interviews are analysed with a chosen qualitative method. Research ethical issues are considered in terms of legislation and frameworks relevant to nursing research. Different questionnaires/ instruments in nursing are scrutinized and students review research articles relevant to

nursing research independently.

**Reading List**

See separate document.

**Examination**

Assessment is based on an individual take-home exam. Supplementary examination is permitted if 1) material for the assessment of a learning outcome is lacking, 2) if the result is close to the requirements for a Pass grade. Additional material must be submitted within six days of notification.

**Grades**

One of the grades Fail (U), Pass (G), or Distinction (VG) is awarded in the examination of the course.

**Quality Assurance**

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

**Course Certificate**

A course certificate will be provided upon request.

**Additional information**

The courses OMM4D1 and OMAD71 cannot be included in the same degree programme as OMAD12.

The local regulations for studies at the Bachelor's and Master's levels at Karlstad University stipulate the obligations and rights of students and staff.

Course approval: 9 December 2010.