



**Karolinska
Institutet**

Course syllabus for

Scientific Research Methods, 7.5 credits

Vetenskaplig forskningsmetodik, 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:

Autumn2013 , [Autumn2014](#) , [Autumn2015](#)

Course code	5HI013
Course name	Scientific Research Methods
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Health Informatics
Level	AV - Second cycle
Grading scale	Excellent, Very good, Good, Satisfactory, Sufficient, Fail, Fail
Department	Department of Learning, Informatics, Management and Ethics
Decided by	Programnämnd 5
Decision date	2013-03-18
Course syllabus valid from	Autumn 2013

Specific entry requirements

Passed all courses from semester 1 and at least 10 credits from courses in term 2 at the Master's programme in health informatics.

Objectives

The course will introduce and give training in issues regarding scholarly communication and research methodology.

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

Knowledge and understanding

- Understand and apply correct ways to refer to and cite from scientific literature
- Apply scientific research methods
- Assess quality of scientific literature

Skills and ability

- Find and compile scientific literature
- Discuss and explain differences between different research methods
- Find relevant literature
- Write a report based on a coherent argument

Assessment ability and attitudes

- Analyse, set as contrast, compare and review scientific literature
- Discuss own view in relation to the published research

Content

The course includes:

- To find research discipline, research problem and specific research questions
- To find conflicting scientific literature
- Discuss and structure around an argument in different levels
- Presentation techniques
- Quote, refer and paraphrase
- Data types, collect data, data analysis
- Quantitative methods and analyses
- Qualitative methods and analyses

Teaching methods

- Lectures
- Self-study
- Teacher-led group activities (workshops)
- Peer assessment

Examination

Individual assignment (A-F)

Transitional provisions

After each course occasion will the individual assignments be accepted within a 2-year period after the course.

Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Higher Education.

The course language is English.

Literature and other teaching aids

Health informatics research methods : principles and practice

Layman, Elizabeth; Watzlaf, Valerie J.

Chicago, Ill. : American Health Information Management Association, c2009. - xiii, 439 p.

ISBN:978-1-58426-181-0 : \$85.95 LIBRIS-ID:12452928

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