



INSTITUTE OF MEDICINE

SM00018 Introduction to Research (part I), 8 credits

Introduktion till forskning (del I), 8 högskolepoäng

Third-cycle level / Forskarnivå

Confirmation

This syllabus was confirmed by the Council for PhD Education at Sahlgrenska Academy on 2018-12-13, and is valid from Spring semester 2012.

Responsible department/equivalent

Institute of Medicine, - No translation available -

Entry requirements

Introduction to Research (8 hp) comprises together with the Half-time Seminar (5 hp) and the PhD Proficiency Course (2 hp) the obligatory course of all-together 15 hp at the Sahlgrenska Academy. Introduction to Research (8 hp) should be taken during the first semester after commencement of PhD studies, or as soon as possible thereafter.

For admission to the course there is a requirement of admission to PhD studies.

Learning outcomes

After completed course the student should be able to:

Knowledge and understanding

- describe the theoretical principles on which different research methodologies are based
- describe the scientific publishing process and various publication models and discuss their advantages and disadvantages

Competence and skills

- place the own research as well as research in general in the perspectives of theory of science and research ethics, be able to discuss te own research in relation to scientific norm, and relate it to Swedish laws and regulations of research ethics
- reflect on and argue for the application of different research methodologies in relation to

- one's own and other's research problems
- apply basic statistical concepts and methods
- search information in physical and digital collections, catalogues and other bibliographic tools in a scientific library, compose search strategies, argue for these, and critically assess and evaluate achieved information as well as the search process per se
- produce and present oral and written scientific presentations, where well motivated choices of content and level of difficulty has been made in relation to the audience and objective
- identify and correct the most common structural and stylistic weaknesses in scientific texts

Judgment and approach

- apply ethical rules and norms for authorship and publication of scientific data
- identify and apply tools for constructive peer criticism regarding scientific texts.

Course content

The course contains teaching in primarily:

- Theory of science
- Research ethics
- Medical statistics
- Research methodology
- Information retrieval
- Scientific Communication.

Types of instruction

Lectures, seminars, group assignments, peer-review, oral and written presentations, project work.

Language of instruction

The course is given in English.

Language of teaching is normally English. Oral and written presentations are done in English.

Grades

The grade Pass (G) or Fail (U) is given in this course.

Types of assessment

Examination is done through a project portfolio and a oral presentation. The portfolio shall contain the own project plan, complemented with a commentary on the different perspectives included in the course, peer-reviews of other course participants texts, and a reflection on the peer-to-peer feedback.

The PhD student is expected to participate in all parts of the course. To pass the course, active participation is required at seminars, group assignments and examinations, and passed examinations are required. In case of absence from mandatory elements, completion of the

course should be done according to instruction from the course leader.

A student has the right to request a change of examiner if failed twice on the same exam, if this is practically possible. Such a request should be put forward in writing and addressed to the institute.

Course evaluation

Course evaluation is carried out in writing through a course evaluation published in GUL (the University of Gothenburg's learning platform) as well as through a common discussion at the end of the course. The teacher responsible for the course compiles an analysis of the course evaluations and makes suggestions for the development of the course. Analyses and suggestions are conveyed to the students and published on the University of Gothenburg's learning platform, GUL.

Other information

The different parts of the course are integrated and therefore parts of the course can not be credited.

The syllabus is confirmed by the Council for Postgraduate Studies 2011-12-06, after delegations according to the Academy's work plan and plan of delegation. The syllabus takes effect from the spring 2012. It was entered into FUBAS in December 2018.