

Course Syllabus

General Principles of Scientific Work: Introductory Course 7.5 Credits, Third Cycle

Learning Outcomes

Upon completion of the course, the doctoral student shall be able to:

Knowledge and understanding:

- demonstrate familiarity with central concepts in philosophy of science and different theories in philosophy of science
- explain the epistemological and philosophical basis for methodological choices made in the students chosen PhD research project
- demonstrate familiarity with open science

Skills and abilities

- construct a consistent search strategy for a specific aim
- construct a data management plan

Judgement and approach

- assess issues related to research ethics in various study designs and relate to Swedish laws, regulations and guidelines concerning research ethics and the integrity of the researcher
- elaborate on the ethical responsibility of the researcher and ethical aspects in relation to chosen planned thesis including the perspective of data management and associated laws and regulations

Course Content

The course contains different perspectives of knowledge. The first module addresses what knowledge is from epistemological and philosophical perspectives. In the second module knowledge is illuminated from the perspective of knowledge acquisition and the last module puts knowledge in relation to ethics and legislation.

Module 1: Philosophy of science and knowledge, 3.5 credits

Module 2: Information literacy 0.5 credits

Module 3: Research ethics, integrity of the researcher and open science, 3.5 credits

Assessment

- Written assignments
- Seminars

Forms of Study

The forms of study are individual and pair wise self-study as well as online lectures, seminars and workshop.

Grades

The Swedish grades U–G.

Grade Report:

Module 1: Philosophy of science and knowledge, 3.5 credits

Module 2: Information literacy 0.5 credits

Module 3: Research ethics, integrity of the researcher and open science, 3.5 credits

To receive Pass (G) in the course, the student must receive Pass (G) in all modules.

Prerequisites

To be admitted, applicants must meet the general entry requirements for doctoral studies. Persons who have not been admitted to a doctoral programme at Dalarna University are admitted to the course depending on space availability.

Other Information

The course is taught online. Instruction is in English, and oral as well as written examinations are in English, unless stated otherwise.

Subject:

Care Sciences
Educational Work
Microdata Analysis

Approved:

Approved 28 April 2022
Valid from 28 April 2022

Revised:

Revised, 19 January 2023
Revision is valid from 19 January 2023