



Research Data Management, Ethics and Open Science, 7,5 credits (PhD Course)

Credits: 7,5

Grades: Fail, Pass

The course was instated 2022-06-21 by the director of Humlab, Umeå University. Reviewed 2026-06-15 by the Director of Humlab, Umeå University.

Content

This condensed course introduces research data management and open science. We will cover fundamental concepts, good research practice, ethics, and ethical review in Sweden, and delve into the FAIR and CARE principles. The course also includes important legal aspects, strategies for data storage and backup, and the practical work of creating a data management plan (DMP). The aim is to equip you with the necessary tools for responsible and efficient data management throughout the entire research process.

The overall aim is to equip participants with the knowledge and tools needed for responsible, efficient, and sustainable data management throughout the entire research process.

Expected outcomes

Upon completion of the course, the PhD student will be able to:

- Apply principles of good research practice and ethics in your research, including how to conduct an ethics review in Sweden.
- Critically reflect on how the FAIR and CARE principles, and good research practice and ethics impact data management within your own subject area.
- Understand legal aspects related to research data management.
- Design an appropriate data management plan (DMP) and an ethical review.

Criteria of acceptance

In order to take the course, the applicant must be admitted to and undergoing a PhD education. If there are still vacancies on the course, postdoctoral researchers may be considered as participants.

Teaching



UMEÅ UNIVERSITY

The course is offered in hybrid format. The course consists of a combination of theoretical lectures, and practical, student-centered workshops, and case-based teaching. The course is examined with a final written and presentation-based assessment (Data management plan).

Examination and literature

The examination consists of a final assignment where the student hand in a written assignment and orally present their data management plan that they have worked on during the course. As such, the course literature is not examined but used as support for writing the final assignment. Literature may vary and is announced on the course website.