



P000088, Research ethics and philosophy of science, with focus on biology, 3.0 Hp

Syllabus

Finalized by: Josefin Sundin, 2024-05-08

Valid from: VT2024

Level within study regulation:

Third cycle

Grading scale:

Pass / Failed

Course language:

Swedish

Entry requirements:

Admitted as PhD student.

Objectives:

Upon completion of the course, the students shall have gained knowledge in and understanding of different aspects of research ethics and philosophy of science. The students are expected to:

- Describe the basics of ethics in research: fabrication, falsification, and plagiarism – what it means and pitfalls
- Describe the role of science in society – why is research important?
- Describe and discuss present views on author responsibilities and inclusion criteria, SLUs policy, international policies, and policies of scientific journals

- Describe and discuss peer-review standards and predatory journals
- Describe and critically discuss the concept of misconduct in research, legal definitions, SLU's policy, Swedish national board for assessment of research misconduct (Npof)
- Describe and discuss whistleblowing, legal definitions, SLU's policy, Swedish national board for assessment of research misconduct (Npof)
- Describe the basic overview of the history of philosophy of science
- Describe present views of philosophy of science (concepts and terminology)
- Describe and discuss practical implications of philosophy within research in biology
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Content:

The aim of the course is to give the students an overview and understanding of different aspects of research ethics, and to give the students an introduction to philosophy of science.

The course will consist of seminars (lectures and discussions), held online (via zoom or similar platform). Before each seminar, the students should read the literature associated with each lecture.

The examination consists of a written assignment followed by an oral group discussion of the written assignment during the final seminar event.

Additional, optional, animal research ethics part: Web-platform with lectures and information, followed by a multiple-choice questions exam on the same web platform.

Modes of assessment:

Approved written assignment and oral discussion based on the written assignment. - If a student has failed an examination, the examiner has the right to issue supplementary assignments. This applies if it is possible and there are grounds to do so.

- The examiner can provide an adapted assessment to students entitled to study support for students with disabilities following a decision by the university. Examiners may also issue an adapted examination or provide an alternative way for the students to take the exam.
- If this syllabus is withdrawn, SLU may introduce transitional provisions for examining students admitted based on this syllabus and who have not yet passed the course.
- For the assessment of an independent project (degree project), the examiner may also allow a student to add supplemental information after the deadline for submission. Read more in the Education Planning and Administration Handbook.

Organisation:

Department of Aquatic Resources

Supplementary information

Other information:

- The right to participate in teaching and/or supervision only applies for the course instance the student was admitted to and registered on.
- If there are special reasons, students are entitled to participate in components with compulsory attendance when the course is given again. Read more in the Education Planning and Administration Handbook.