

PHILOSOPHY OF SCIENCE AND ETHICS (3p)

Welcome to this Ph D course! Below follows some general information about what will be required of you in this course. Read this information carefully and make sure you plan ahead for allowing enough time during the course to complete your assignments. Below we have listed some general reading material, and for the scheduled ethics discussion as well as for the seminar on History and Sociology of Science, more specific information with reading material and links will be available through our Athena site.

- Lectures and the Discussion/information sessions as specified in the schedule are compulsory. On-line we will note attendance by 'presence'. If you become sick or otherwise prohibited from participating, contact the course responsible people (details at end of this document) ahead of time.
- The course work includes 2 group assignments, one for History and Sociology of Science and one for the Ethics. We will make the groups on the first day of the course. There will also be a short individual assignment on the 'Picture a scientist' film. Note that all assignments should be written in your own words and any quotations clearly marked and cited, see 'Plagiarism and regulations for disciplinary matters' at SU: <https://www.su.se/english/education/student-support/your-rights-and-responsibilities>
- For the History and Sociology of Science assignment, there will be a document in Athena with questions based on the content for the lecture and the seminar. You will have to read all the literature and attend the lecture and the seminars to be able to answer the questions. Your answers should be uploaded to Athena as specified in the schedule.
- For the Ethics part, we have a final Discussion session. We will divide you into groups of 3-4 at the onset of the course, and make sure you can all contact each other. The group will work together before the session to prepare their oral and written assignments. The instructions, topics and reading material for this assignment will be available in Athena shortly. When the groups are made, you will also know who is the leader of your discussion session (course responsible PÄ, BM or UN) and questions regarding this assignment should be directed to this person. Although this is a group assignment, each separate topic that you chose has one 'main' person who collects and presents the group's reflections.
- At the Ethics Discussion session you are expected to participate actively and after the session you will (as a group) finalize your written reflections, combine them into one document and upload to Athena (Assignments). You will appoint one person/group to be the one who collects contributions, combines and uploads them.

- The 'Picture a Scientist' video is available at the link below (if the link does not work, you can find it through the University library: search in databases: Alexander street: search for Picture a Scientist)

https://search.alexanderstreet.com/view/work/bibliographic_entity%7Cvideo_work%7C5109592

- **General reading material:**

- 1. History and Sociology of Science**

Reading material will be specified and available in Athena shortly.

- 2. Ethics**

There will be specific instructions for the discussion and assignment for Ethics. If you want to familiarize yourself with the subject, below follows links to general reading material.

1. A) (Good research practice) VR, Free download in Swedish and English.

<https://www.vr.se/analys/rapporter/vara-rapporter/2017-08-29-god-forskningssed.html>

- B) R. Noyori, J. P. Richmond, "Ethical Conduct in Chemical Research and Publishing", *Adv. Synth. Catal.* **2013**, 355, 3–8.

<https://onlinelibrary.wiley.com/doi/full/10.1002/adsc.201201128>

- C) W. F. van Gunsteren, "The Seven Sins in Academic Behavior in the Natural Sciences", *Angew. Chem. Int. Ed.* **2013**, 52, 118–122.

<https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201204076>

- D) ACS ethical guidelines to publications

<https://pubs.acs.org/pb-assets/documents/policy/EthicalGuidelines-1635271193737.pdf>

If you cannot click the links, then copy it and paste into your browser.

- Contact information for the course responsible people:

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