



LUND
UNIVERSITY

Faculty of Engineering, LTH
Genombrottet

Course Syllabus GEM006F
2015-11-20

Communicating Science (Att kommunicera vetenskap)

Communicating Science is an elective course of the qualifying programme in teaching and learning in higher education and of third-cycle studies at LTH.

Aim: The aim of the course is to prepare doctoral students and teaching staff at LTH for situations requiring communication of science.

Learning outcomes: Knowledge and understanding

For a Pass on the course, participants shall

- know the fundamental concepts of classical rhetoric and be able to recognise rhetorically structured argumentation
- understand how the delivery and structure of scientific presentations may be perceived and be able to plan and carry out scientific presentations on the basis of this knowledge.

Competence and skills

For a Pass on the course, participants shall

- be able to take advantage of their voices and individual body language in the planning and delivery of scientific presentations
- be able to write a popular science article which relates the research subject to wider society and has the potential to create interest in a broad audience
- be able to design and evaluate a scientific poster on the basis of its graphic and scientific message, and from the point of view of the intended function of the poster
- be able to analyse and handle possible conflict situations in the context of scientific communication
- be able to develop and use audiovisual aids to enhance the message of scientific presentations, and be aware of the limitations of such aids.

Judgement and approach

For a Pass on the course, participants shall

- be able and inclined to give and take feedback in a constructive manner that is likely to lead to development
- be able to interact in meetings with media representatives.

Content: The course includes components such as techniques of scientific presentation skills and feedback, voice and speech, poster presentations, rhetoric and the writing of popular science.

- Instruction:** Apart from a few lectures, the course consists of practical and individual exercises followed by group discussions and analysis. The exercises in rhetoric take the form of role play and group discussions.
- Assessment:** For a Pass on the course, participants must have attended at least 80% of the scheduled activities and completed and passed all exercises and assignments in the course.
- Scope:** The course corresponds to 3 weeks of full-time work of which 1 week is part of the qualifying programme in teaching and learning in higher education at LTH. The course corresponds to 5 credits in third-cycle studies (with Pass and Fail as available grades), if this is in line with the individual study plan.
A current timetable is available on the course homepage.
- Admission:** To be admitted to the course, participants must normally have a first-cycle degree.
- Selection:** Priority is given to students admitted to third-cycle studies at LTH. If there are places available, other teaching staff at LTH are welcome to attend the course.
- Language:** The course is taught in English.
- Homepage:** <http://www.lth.se/english/staff/teaching-and-research/phd-studies/phd-courses/faculty-wide-phd-courses/>
- Reading:** The required reading is determined during the course and on the basis of the communication requirements of the participants.
- Course directors:** Senior lecturer **Anders Ahlberg** (Anders.Ahlberg@genombrottet.lth.se)
Information on current teachers on the course is available on the course homepage.
- Category:** The course belongs to the general third-cycle courses at LTH.
- Other:** A prize for the best popular science article is awarded by a jury at the end of the course.
The course is identical to and given together with GB_S12.