



Faculty of Health, Science, and Technology

Doctoral Programme Course

Course Approval

The syllabus was approved by the Board of the Faculty of Health, Science, and Technology on 3 Nov. 2015 (Dnr HNT 2015/152) and is effective from the Autumn of 2013.

Course code

2MIE002

Discipline/Main field of study

Faculty course for the science and technology subjects: Biology, Computer Science, Chemistry, Chemical Engineering, Physics, Mathematics, Materials Engineering, Environment and Energy Systems

Course Title

Vetenskapligt skrivande i natur- och teknikvetenskap
Writing in Science and Technology

Higher Education Credits

5 ECTS credits

Language of Instruction

Swedish or English

Degree Level

Doctoral

Prerequisites

Admission to a doctoral programme in science and technology at Karlstad University. The course is recommended as soon as students have results to publish. The course is also open to non-doctoral students subject to individual approval.

Learning Outcomes

The aim of the course is to prepare doctoral students for the processes of writing and publishing research results, thus developing skills in communicating science.

Competence and skills

Upon completion of the course, students should be able to

- give an authoritative account of the general structure of a scientific article,
- demonstrate expert knowledge in a delimited area of the research field and present it to the group,
- present the method used in their study authoritatively and with clarity,
- write a scientific text in an effective, concise and clear way.

Judgement and approach

Upon completion of the course, students should be able to

- formulate views on the structure of a scientific text in other research areas than their own,
- suggest improvements to the text,
- assess the ethical aspects of a scientific text,
- adopt a constructive approach to the result of a peer-review process.

Course Content

The course is based on lectures on general aspects of scientific texts and a seminar series in which doctoral students review each other's research-related texts. The lectures are given by senior researchers who present aspects of research texts in their respective discipline. The seminars aim to help the doctoral students develop their writing and gain insight into the approaches, traditions and research methods applied in other science and technology subjects. The students cooperate on texts, manuscripts and assignments. The course is offered to all doctoral students in science and technology at Karlstad University. Students develop skills in giving and taking comments on their own and others' research, orally and in writing.

Course literature

Texts to be discussed are chosen by the doctoral students in consultation with the main supervisor or the examiner.

Examination

Assessment is based on the student's oral and written presentations and contributions to other texts.

Course Certificate

Course certificate is issued on request.

Quality Assurance

A written evaluation is carried out at the conclusion of the course and a discussion on the structure and content of the course.

Grades

One of the grades Fail (U) or Pass (G) is awarded in the examination of the course.

The course is financed by faculty funds.