



FCK3105 Design and Publication of Scientific Papers in Chemistry and Materials Science 3.0 credits

Utformning och publicering av vetenskapliga artiklar i kemi och materialvetenskap

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for FCK3105 valid from Autumn 2021

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Eligible for studies at the third-cycle level and Master exam in Chemistry.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completion of the course the doctoral student should have

- The knowledge and ability to write a scientific paper together with senior scientists, and to be able to evaluate scientific texts within the disciplines of chemistry and materials science
- Specialized abilities to write papers with the IMRAD structure and to be able to write texts suitable for the different sections: INTRODUCTION, METHODS, RESULTS and DISCUSSION.
- Specific skills to write motivation of study; to know how to report science in an ethical correct way; how to reference proper literature; adequate logics, to choose what journal to submit to; how to avoid double publishing, the ABC of the reviewing process

Course contents

Historical review of scientific publishing with a special emphasis on the IMRAD structure and with focus on writing articles within the scientific areas chemistry and materials science. The students will work with some more practical questions:

- To formulate a strong motivation text
- Ethical questions concerned with the fact that you are a co-author
- Presentation of data
- Selection of journal
- How to avoid double publishing
- How to act properly during the reviewing process

Examination

- TEN1 - Home exam, 2.0 credits, grading scale: P, F
- INL1 - Assignments, 1.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Comments to examination

Approved TEN1 and INL1; the latter will be presented both in written form and orally.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.