



# FCK3309 The Research front Line in analytical Chemistry 4.5 credits

Forskningsfronten inom analytisk kemi

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

## Establishment

Course syllabus for FCK3309 valid from Spring 2020

## Grading scale

P, F

## Education cycle

Third cycle

## Specific prerequisites

Eligible for studies at the third-cycle level.\*\*

To be able to profit by the course the student should have taken one of the courses KD2020, KD2030, KD2330, FCK3303, or FCK3304, or should have acquired corresponding knowledge elsewhere.

## Language of instruction

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

## Intended learning outcomes

After passing the course the student be able to:

- Show both broad and specialized knowledge in the scientific field of the course, regarding both theory and application
- Pedagogically present, critically examine, and discuss their own and others scientific work within the subject area of analytical chemistry
- Demonstrate insight into academic authorship, and the international scientific publishing landscape with relevance to the scientific subject area of the course
- Identify, discuss and reflect on ethical and sustainability aspects in the research that are discussed within the framework of the scientific subject area of the course

## Course contents

The students will present, discuss and critically examine research associated to analytical chemistry. Hence, the students will be able to evaluate and reason about current analytical problems, and theory, and thus gain both a broader and deeper understanding of the scientific subject area. At least one senior researcher will be present at the seminars as a moderator. Each student will give at least two presentations, and will be main opponent at two presentations.

## Examination

- SEM1 - Seminars, 4.5 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.

To pass the course the student must give two presentations, perform an opposition on two presentations, and participate actively in at least 80% of the seminars. Before each seminar, the students responsible for giving presentations should send a brief summary to the rest of the student group and the examiner.

## 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.