



FCK3328 Physical Organic Chemistry 7.5 credits

Fysikalisk Organisk Kemi

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

Establishment

Course syllabus for FCK3328 valid from Autumn 2024

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Eligible for studies at the third-cycle level.

To be able to profit from the course the graduate student should have taken one of the courses KD2310, KD2390 or CE2385, or should have acquired the equivalent knowledge elsewhere.

Language of instruction

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

Intended learning outcomes

Upon completion of the course the doctoral student should have the knowledge and ability to:

- demonstrate broad as well as specialized knowledge in the subject areas of the course and the area of physical organic chemistry
- discuss different techniques and their underlying physical organic principles for determining reaction mechanisms in organic chemistry
- present, critically assess and discuss principles and their applications in physical organic chemistry

Course contents

In this course, the participants are expected to develop a broad understanding of physical organic chemistry and its concepts. This includes chemical bonding, thermodynamics and kinetics of relevance for organic compounds and their reactivity.

Examination

- SEM1 - Seminars, 6.0 credits, grading scale: P, F
- SEM2 - Seminars, 1.5 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.

The seminars in SEM1 are part of the examination and require thus mandatory active participation. These seminars will contain teacher presentations but will primarily focus on student discussions based on the reading that precedes each seminar. Towards the end of the course, the students will present an area covered in the course and exemplify the principles with primary research literature (SEM2). Individual solutions will be made if a student has been unable to attend all mandatory modules due to, e.g., illness. Based on recommendation from KTH's coordination 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.

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.

