



# F4H5405 Corrosion Science 7.5 credits

Korrosionslära, doktorandkurs

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

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

## Establishment

Course syllabus for F4H5405 valid from Autumn 2009

## Grading scale

undefined

## Education cycle

Third cycle

## Specific prerequisites

The participants are assumed to be graduate students at the university or researchers working in industry with a background in physics, chemistry or materials science. The introductory lecture covers necessary background information.

## Language of instruction

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

## Intended learning outcomes

The course is intended for graduate students or researchers working in academic or industrial environments with an interest in material science and engineering.

## Course contents

Corrosion is a truly interdisciplinary science and the aim is to discuss the underlying chemistry and physics of the most important forms of metal corrosion. Mechanistic as well as applied aspects will be dealt with.

## Disposition

The course includes 22 lecture hours on four consecutive Mondays from 10.15 to 17.00 with a break for lunch and a break for coffee during the afternoon. Most lecturers are part of KorrosionsCentrum (a collaboration between KIMAB and KTH) in Stockholm and most competent experts in their respective fields. Lecture rooms Q17 and Q26 are located on Osqudas väg 6B, level 1 and 2 respectively, and lecture room M21 on Brinellvägen 64, street level, all within KTH Campus.

## Course literature

Selected chapters in "Corrosion Mechanisms in Theory and Practice", 2nd edition, Ed. P. Marcus, Marcel Dekker, Inc., New York (2002). The book can be purchased through Kårbokhandeln at KTH, Osquars Backe 21, price ca 900 SEK (e-mail: [peters@thsab.se](mailto:peters@thsab.se))

## Examination

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.

Written examination. The date of written examination will be decided after general agreement with the participants.

## 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.

