



# FMH3623 Seminar Course in Atomic- scale Materials Science 6.0 credits

Seminariekurs i materialvetenskap på atomär skala

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

## Establishment

Course syllabus for FMH3623 valid from Autumn 2014

## Grading scale

G

## Education cycle

Third cycle

## Specific prerequisites

## Language of instruction

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

## Intended learning outcomes

# Course contents

## Course literature

1. R. Martin, "Electronic Structure. Basic theory and Practical Methods" (Cambridge University Press, Cambridge, 2004).
2. D.G. Pettifor, "Bonding and Structure of Molecules and Solids" (Clarendon Press, Oxford, 1995).
3. D. Frenkel and B. Smit, Understanding molecular simulation: from algorithms to applications (Academic Press: San Diego, 1996).
4. V. Bulatov and W. Cai, Computer simulations of dislocations, (Oxford Univ. Press: Oxford, 2006); Online material <http://micro.stanford.edu/~caiwei/CSD-Book/>
5. Presentationsbilder och kompletterande kursmaterial, som delas ut till seminariedeltagarna via e-post.

## 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.

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

## 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.