

PNS0218, Advanced Inorganic Chemistry, 15.0 Hp

Syllabus

Valid from: HT2007

Level within study regulation:

Third cycle

Subject:

- Chemistry

Grading scale:

Pass / Failed

Course language:

Swedish

Entry requirements:

Master degree in Chemistry or Materials Science

Objectives:

After completing the course the student shall be able to

- Discuss principal models for the electronic structure and bonding of atoms, molecules and bulk solids.
- Discuss and argue for application of different characterization methods for revealing the structure and bonding.

- Discuss principal approaches to, fundamental features of structure and chemistry, and applications of elements in the groups of Periodic Table and their most important compounds.

Content:

The course will provide insights into most important theoretical principles in understanding the structure and reactivity of inorganic compounds. It will be organized as a series of workshops, where the students will discuss bonding models, spectroscopic characterization, and, most importantly, chemical properties of the elements through the whole Periodic Table.

Modes of assessment:

Written exam - If a student has failed an examination, the examiner has the right to issue supplementary assignments. This applies if it is possible and there are grounds to do so.

- The examiner can provide an adapted assessment to students entitled to study support for students with disabilities following a decision by the university. Examiners may also issue an adapted examination or provide an alternative way for the students to take the exam.
- If this syllabus is withdrawn, SLU may introduce transitional provisions for examining students admitted based on this syllabus and who have not yet passed the course.
- For the assessment of an independent project (degree project), the examiner may also allow a student to add supplemental information after the deadline for submission. Read more in the Education Planning and Administration Handbook.

Organisation:

Department of Molecular Sciences

Supplementary information

Other information:

- The right to participate in teaching and/or supervision only applies for the course instance the student was admitted to and registered on.

- If there are special reasons, students are entitled to participate in components with compulsory attendance when the course is given again. Read more in the Education Planning and Administration Handbook.