



KE1100 Material- and Energy Balance 12.0 credits

Material- och energibalans

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

Establishment

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed upper secondary education including documented proficiency in English corresponding to English A. For students who received/will receive their final school grades after 31 December 2009, there is an additional entry requirement for mathematics as follows: documented proficiency in mathematics corresponding to Mathematics A.

And the specific requirements of mathematics, physics and chemistry corresponding to Mathematics E, Physics B and Chemistry A.

Language of instruction

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

Intended learning outcomes

Under processing

Course contents

Course literature

Elementary Principles of Chemical Processes, R.M. Felder & R.W. Rosseau, John Wiley & Sons, Inc., 3rd Edition, 2005, ISBN 978-0-471-37587-6.

Hållbar utveckling – en introduktion för ingenjörer och andra problemlösare, Fredrik Gröndahl & Magdalena Svanström, Stockholm: Liber, 1:a uppl., 2011. ISBN 978-91-47-09348-9.

Examination

- INL1 - Home Assignment, 1.5 credits, grading scale: P, F
- PRO1 - Project, 6.0 credits, grading scale: P, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, 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.

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.