

COURSE DETAIL

NANOMATERIALS: THERMODYNAMICS AND KINETICS

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Mechanical Engineering Materials Science

UCEAP Course Number

175

UCEAP Course Suffix**UCEAP Official Title**

NANOMATERIALS: THERMODYNAMICS AND KINETICS

UCEAP Transcript Title

NANOMAT:THERMODYNMC

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course offers an overview of thermodynamic phenomena and kinetic processes from a materials science perspective, with application towards nanomaterials. Topics covered: review of basic thermodynamics; thermodynamic equilibrium; phase equilibria and phase diagrams; reactions and reaction kinetics; heat transport; mass transport in solids and fluids; size effects.

Language(s) of Instruction

English

Host Institution Course Number

FFFN05/FYST40

Host Institution Course Title

NANOMATERIALS - THERMODYNAMICS AND KINETICS

Host Institution Course Details

Host Institution Campus

Engineering/Science

Host Institution Faculty

Host Institution Degree

Host Institution Department

Engineering- Physics

Course Last Reviewed

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