COURSE DETAIL

HEAT AND THERMODYNAMICS
Country Hong Kong
Host Institution University of Hong Kong
Program(s) University of Hong Kong
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 122
UCEAP Course Suffix
UCEAP Official Title HEAT AND THERMODYNAMICS
UCEAP Transcript Title HEAT&THERMODYNAMICS
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description
This calculus-based course covers the basics of thermodynamics and kinetic theory. Problem solving and analytical skills are extensively used and are supplemented by numerical skills occasionally. Topics include: thermodynamic system, equilibrium state and its characterization; thermodynamic state function and equation of state and state transformation; first law of thermodynamics, adiabatic process, Carnot cycle; entropy and second law of thermodynamics; various thermodynamic potentials and their applications in phase equilibrium and mixtures; third law of thermodynamics and Nernst theorem. It also includes a discussion on kinetic theory.

Language(s) of Instruction
English

Host Institution Course Number
PHYS2261

Host Institution Course Title
INTRODUCTORY HEAT AND THERMODYNAMICS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Physics

Course Last Reviewed

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