COURSE DETAIL

STATISTICAL MECHANICS

Country
United Kingdom - Scotland

Host Institution
University of Edinburgh

Program(s)
University of Edinburgh

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Physics

UCEAP Course Number
114

UCEAP Course Suffix

UCEAP Official Title
STATISTICAL MECHANICS

UCEAP Transcript Title
STATISTICAL MECH

UCEAP Quarter Units
4.00

UCEAP Semester Units
2.70

Course Description
This course provides an introduction to the microscopic formulation of thermal physics, generally known as statistical mechanics. It explores the general principles of the microscopic significance of entropy and temperature. The course develops the machinery needed to form a practical tool linking microscopic models of many-particle systems with measurable quantities. It also considers a range of applications to simple models of crystalline solids, classical gases, quantum gases, and blackbody radiation.

Language(s) of Instruction
English

Host Institution Course Number
PHYS09019

Host Institution Course Title
STATISTICAL MECHANICS

Host Institution Course Details
http://www.drps.ed.ac.uk/24-25/dpt/cxphys09019.htm

Host Institution Campus

Host Institution Faculty
School of Physics and Astronomy

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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