

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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