

COURSE DETAIL

STATISTICAL THERMODYNAMICS

Country

France

Host Institution

University of Bordeaux

Program(s)

University of Bordeaux

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Mechanical Engineering

UCEAP Course Number

105

UCEAP Course Suffix**UCEAP Official Title**

STATISTICAL THERMODYNAMICS

UCEAP Transcript Title

STAT THERMODYNAMICS

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

This course offers a description of a system to make a link between the microscopic properties of the particles in the system and its macroscopic behavior at equilibrium. It is based on the idea that the macroscopic state of the system is realized as the average over a large number of independent microscopic states. This demonstrates the basis of these statistical principles and their applications to various problems in physics, chemistry, and material science as statistical thermodynamics bridges many disciplines as it makes the link between the physical description of a given particle and the behavior of a statistical ensemble of those particles.

Language(s) of Instruction

English

Host Institution Course Number

4TCCC702U

Host Institution Course Title

THERMODYNAMIQUE STATISTIQUE

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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