COURSE DETAIL

THERMODYNAMICS AND DYNAMICS OF THE ATMOSPHERE
Country Germany
Host Institution Free University of Berlin
Program(s) Free University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Earth & Space Sciences
UCEAP Course Number 101
UCEAP Course Suffix
UCEAP Official Title THERMODYNAMICS AND DYNAMICS OF THE ATMOSPHERE
UCEAP Transcript Title THERMODNYMC ATMOSPH
UCEAP Quarter Units 8.50
UCEAP Semester Units 5.70

Course Description
This course introduces students to the general thermodynamics and dynamics of the atmosphere. It covers the following topics: thermodynamics of the atmosphere; static alterations of the atmospheric air; statics of the atmosphere; condensation and latent heat; basics of kinematics; derivation of prognostic fundamental equations of meteorology from classical thermodynamics and hydrodynamics; scales in meteorology; Lagrange and Eulers representation; natural coordinates; fundamental equilibriums (geostrophic wind, cyclostrophic wind, gradient wind); thermal wind.

Language(s) of Instruction
German

Host Institution Course Number
24805

Host Institution Course Title
DYNAMIK DER ATMOSPHÄRE 1

Host Institution Campus
GEOWISSENSCHAFTEN

Host Institution Faculty

Host Institution Degree

Host Institution Department
Meteorologie

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