

## COURSE DETAIL

### RADIATION AND REMOTE SENSING

**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**

102

**UCEAP Course Suffix****UCEAP Official Title**

RADIATION AND REMOTE SENSING

**UCEAP Transcript Title**

RADIATION & SENSING

**UCEAP Quarter Units**

5.50

**UCEAP Semester Units**

3.70

**Course Description**

This class covers the following topics: fundamentals of atmospheric radiation and remote sensing; black body radiation; Planck's law of radiation; solar and terrestrial radiation; absorption of atmospheric gases; Rayleigh and Mie-scattering; radiation balance of the earth-atmosphere system; remote sensing of significant atmospheric components (molecules, aerosols, clouds, precipitation).

**Language(s) of Instruction**

German

**Host Institution Course Number**

24803

**Host Institution Course Title**

RADIATION AND REMOTE SENSING

**Host Institution Campus**

GEOWISSENSCHAFTEN

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Meteorologie

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