

# COURSE DETAIL

## REFLECTION SEISMICS AND WELL LOGGING

**Country**

Denmark

**Host Institution**

Aarhus University

**Program(s)**

Aarhus University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Earth & Space Sciences

**UCEAP Course Number**

117

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

REFLECTION SEISMICS AND WELL LOGGING

**UCEAP Transcript Title**

REFLECTION SEISMICS

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

## Course Description

This course includes a theoretical and practical introduction to the reflection seismic and acoustic method and to interpretation of geophysical well logs and geotechnical measurements. Teaching consists of integrated lectures and exercises and a one-day fieldtrip with the research vessel Aurora. Lectures include: acquisition and processing of reflection seismic data and other acoustic data; the physical principles of geophysical well logs and geotechnical measurements; the workflow in an integrated interpretation. The theoretical introduction is succeeded by interpretation of seismic data and qualitative and quantitative interpretation of well logs and geotechnical measurements and how such data are used for analyzing the geological structure and development of both shallow and deep sediments with focus on the industrial applications and the green transition.

## Language(s) of Instruction

English

## Host Institution Course Number

535171U003

## Host Institution Course Title

REFLECTION SEISMICS AND WELL LOGGING

## Host Institution Course Details

<https://kursuskatalog.au.dk/en/course/134915/Reflection-Seismics-and-Well-Loggi...>

## Host Institution Campus

## Host Institution Faculty

Natural Sciences

## Host Institution Degree

Bachelor

## Host Institution Department

Geoscience

**Course Last Reviewed**

2025-2026

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