

# COURSE DETAIL

## BASINS AND RESERVOIRS

**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**

118

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

BASINS AND RESERVOIRS

**UCEAP Transcript Title**

BASINS & RESERVOIRS

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

This course introduces the formation and geological evolution of sedimentary basins in order to understand the spatial distribution of different units and the exploitation of the subsurface. The course includes lectures and practicals in basin forming processes with focus on the relation between subsidence (including faults and saltstructures) and deposition of different reservoirs in time and space; the use of reservoirs with respect to drinking water production, CCS, geothermal energy, heat storage and the formation/production of fossil fuel; introducing geotechnical methods and the link to geological problems; and carbon cycles. Different methods for analyzing basins and reservoirs are also introduced, including reflection seismics, well logging, organic geochemistry, geotechnical measurements, and thermal evolution (modelling).

## Language(s) of Instruction

English

## Host Institution Course Number

535171U007

## Host Institution Course Title

BASINS AND RESERVOIRS

## Host Institution Course Details

<https://kursuskatalog.au.dk/en/course/130389/Basins-and-Reservoirs>

## Host Institution Campus

Aarhus

## Host Institution Faculty

Natural Sciences

## Host Institution Degree

Bachelor

## Host Institution Department

Geoscience

**Course Last Reviewed**

2025-2026

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