

COURSE DETAIL

COASTAL GEOSCIENCE

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies Earth & Space Sciences

UCEAP Course Number

138

UCEAP Course Suffix**UCEAP Official Title**

COASTAL GEOSCIENCE

UCEAP Transcript Title

COASTAL GEOSCIENCE

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides a broad and coherent understanding of sediment transport, geomorphological processes, coastal deposits, and landforms in coastal environments. It builds an understanding and appreciation of coastal development over both short and long time spans and how (and why) changing boundary conditions (climate change; sea level change) affect these landscapes in the long term. This includes an appreciation of risks related to climate change along with possible adaptation strategies and measures. Topics include waves and currents; erosion and transport of sediments; beach and shoreface morphology; conceptual morphological models; stratigraphy and formation of coastal landscapes; beach erosion/accretion; coastal response to changes in sea-level, sediment supply and climate change.

Language(s) of Instruction

English

Host Institution Course Number

NIGK17014U

Host Institution Course Title

COASTAL GEOSCIENCE

Host Institution Campus

Host Institution Faculty

Science

Host Institution Degree

Master

Host Institution Department

Geoscience and Natural Resource Management

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