# COURSE DETAIL

## OPEN DATA SCIENCE

**Country**
Denmark

**Host Institution**
University of Copenhagen

**Program(s)**
University of Copenhagen

**UCEAP Course Level**
Upper Division

**UCEAP Subject Area(s)**
Statistics Communication

**UCEAP Course Number**
117

**UCEAP Course Suffix**

**UCEAP Official Title**
OPEN DATA SCIENCE

**UCEAP Transcript Title**
OPEN DATA SCIENCE

**UCEAP Quarter Units**
12.00

**UCEAP Semester Units**
8.00

**Course Description**

This course introduces "open" tools and methods for processing and visualizing data types such as structured data, text data, and temporal data. It discusses the opportunities and challenges in relation to working with large amounts of data, including ethical conditions regarding data acquisition, storage, aggregation, publication, and use. The course applies theories and concepts to define and analyze issues relating to large amounts of data. Students learn to develop solutions for retrieval and sorting structured and unstructured data, as well as process and represent data visually. The course largely involves hands-on cases working with relevant data sets, including an introduction to the language Python and the use of Python for data analysis such as text mining and sentiment analysis. It also introduces the principles behind FAIR data and explores ethical issues when working with open data.

**Language(s) of Instruction**
English

**Host Institution Course Number**
HIVB10078U

**Host Institution Course Title**
OPEN DATA SCIENCE

**Host Institution Campus**

**Host Institution Faculty**
Faculty of Humanities

**Host Institution Degree**
Bachelor

**Host Institution Department**
Department of Communication

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