

# COURSE DETAIL

## SOCIAL SCIENCE DATA ANALYSIS AND PROGRAMMING

**Country**

Norway

**Host Institution**

University of Oslo

**Program(s)**

University of Oslo

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

104

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

SOCIAL SCIENCE DATA ANALYSIS AND PROGRAMMING

**UCEAP Transcript Title**

DATA ANALYSIS&PROGM

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

## Course Description

The course offers an introduction to programming-based problem solving for social scientists. The course introduces a number of problems and solutions in social science data processing with applications in R. The course begins with a number of general programming topics, followed by efficient processing of different data structures and how data can be combined using SQL and Tidyverse. Secondly, the course looks at special challenges related to space and time. The spatial dimension introduces GIS techniques. Towards the end, the course sees how machine text analysis can be used to automate data collection and to look at how we can effectively visualize different types of data. The course provides a good basis for independent work with social science information. The course requires students to have completed a course in research methods and statistics as a prerequisite.

## Language(s) of Instruction

English

## Host Institution Course Number

STV2020

## Host Institution Course Title

SOCIAL SCIENCE DATA ANALYSIS AND PROGRAMMING

## Host Institution Course Details

<https://www.uio.no/studier/emner/sv/statsvitenskap/STV2020/>

## Host Institution Campus

## Host Institution Faculty

Social Sciences

## Host Institution Degree

## Host Institution Department

Political Science

## Course Last Reviewed

2022-2023

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