

# COURSE DETAIL

## APPLIED DATA ANALYSIS

**Country**

Korea, South

**Host Institution**

Yonsei University

**Program(s)**

Yonsei University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Political Science

**UCEAP Course Number**

164

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

APPLIED DATA ANALYSIS

**UCEAP Transcript Title**

APPLIED DATA ANALYS

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course introduces students to the methods and practices by which they can use data to answer questions in political science. It focuses on learning how to collect, manage, and analyze data using computer software and how to effectively communicate results to others. The goal is to understand the core concepts in statistical procedures and causal inference; to learn how to explore and manage data and conduct statistical analysis; and to understand core programming concepts in the R language and apply these concepts to complete in-class activities and problem sets. Topics include Introduction to R and R Studio, Basics of Data Management (Finding and opening data, Understanding data structure; Subsetting), Summarizing Data (Measures of central tendency and dispersion), Data Visualization, Research Design, Probability and Sampling, Confidence Intervals; Hypothesis Testing, Causality and Experimental Analysis, Bivariate Regression, and Multivariate Regression.

### Language(s) of Instruction

English

### Host Institution Course Number

POL4835

### Host Institution Course Title

APPLIED DATA ANALYSIS

### Host Institution Course Details

[http://ysweb.yonsei.ac.kr:8888/curri120601/curri\\_pop2.jsp?hakno=POL4835&bb=01&s...](http://ysweb.yonsei.ac.kr:8888/curri120601/curri_pop2.jsp?hakno=POL4835&bb=01&s...)

### Host Institution Campus

### Host Institution Faculty

**Host Institution Degree**

**Host Institution Department**  
Political Science and Diplomacy

**Course Last Reviewed**  
2022-2023

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