

COURSE DETAIL

STATISTICAL COMPUTING AND PROGRAMMING

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Statistics Mathematics

UCEAP Course Number

137

UCEAP Course Suffix**UCEAP Official Title**

STATISTICAL COMPUTING AND PROGRAMMING

UCEAP Transcript Title

STATSTCL COMP&PROG

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces students to the statistical computing and programming, with the main focus on R, Python, and SAS. Students learn basic computing and programming concepts including scripting, variables, expressions, assignments, control structures, and data structures. On the statistical side, they will learn to load raw data, make numerical and graphical summaries of data, and conduct various estimation and testing procedures. Topics include descriptive statistics, statistical estimation, robust estimation, categorical data analysis, testing hypotheses, ANOVA, regression analysis, performing resampling methods and simulations. Some basic knowledge of R is assumed.

Language(s) of Instruction

English

Host Institution Course Number

ST2137

Host Institution Course Title

STATISTICAL COMPUTING AND PROGRAMMING

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Statistics and Data Science

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