COURSE DETAIL

INTRODUCTION TO STATISTICS AND STATISTICAL COMPUTING

Country
Singapore

Host Institution
National University of Singapore

Program(s)
National University of Singapore

UCEAP Course Level
Lower Division

UCEAP Subject Area(s)
Statistics

UCEAP Course Number
32

UCEAP Course Suffix

UCEAP Official Title
INTRODUCTION TO STATISTICS AND STATISTICAL COMPUTING

UCEAP Transcript Title
INTRO/STATSTCL COMP

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course introduces basic concepts and methods of statistics as a tool to perform appropriate data analyses. The statistical software R is taught alongside the material to introduce statistical computing. Students learn to load raw data, make numerical and graphical summaries of data, and conduct various estimation and testing procedures. Topics include programming in R, descriptive statistics, concepts of probability, random variables and probability distributions, sampling distribution, statistical estimation, hypothesis testing, linear regression, and applications to real-world problems.

Language(s) of Instruction
English

Host Institution Course Number
ST1131

Host Institution Course Title
INTRODUCTION TO STATISTICS AND STATISTICAL COMPUTING

Host Institution Campus

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department
Statistics and Data Science

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