STAT1011D   Introduction to Statistics
2nd semester, 2023-2024

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Time and Venue (Lecture) Thursday: 2:30pm – 5:15pm (YIA LT6)

Teaching Assistants:
- Mr. Jia, Bowen   [LSB G24, email: jiabo20@link.cuhk.edu.hk]
- Mr. Liu, Yujia   [LSB 123, email: yjliu@link.cuhk.edu.hk]
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Tutorial Sessions: TBC

1. Course Description:

This course introduces basic statistical methods with applications in behavioral and experimental sciences. Topics include descriptive statistics, the concepts of population and sample, random sampling, basic distributions, point and confidence interval estimations, hypothesis testing and inferences on two samples. Topics and examples in relation to correlation, contingency table and regression will also be discussed.

2. Learning outcomes

Upon completion of the course, students will
(1) learn the basic methods in data collection,
(2) acquire knowledge in data analysis and presentation skills,
(3) be able to apply estimation and testing methods to practical problems.

3. Course Content

Topic	Contents/ concepts
Data Collection	Methods of collecting data, sampling techniques, bias
Descriptive statistics	Statistical graphics, organizing qualitative and quantitative data, measures of central tendency and dispersion, outliers, boxplots
Elementary probability	Basic concepts of probability, independence, conditional probability, Bayes' Theorem
Discrete probability distributions	Bernoulli and Binomial, multinomial, Poisson, Hypergeometric
Normal Distribution	Standardization, finding probabilities, assessing normality, normal approximation to the binomial probability distribution
Sampling distribution of sample means	Central limit theorem, Finite population correction factor
Estimation	Basic Concepts, point estimation, confidence intervals
Testing	Basic concepts of hypothesis testing, testing of means, testing of proportions, testing of variances
Inferences on two samples	Inference about two means, inference about two population proportions, inference about two population variances
Regression	Correlation, simple linear regression

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H Kauffman

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