

ANALYSIS OF EXPERIMENTAL AND OBSERVATIONAL DATA (3)

Distance Education

COURSE TIMES + LOCATION:

Location: TBA

EXAM TIMES + LOCATION:

Aug 14, 2022

12:00 PM - 3:00 PM

EDB 7618, Burnaby

INSTRUCTOR:

Pulindu Ratnasekera

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PREREQUISITES:

One of STAT 201, STAT 203, STAT 205, STAT 270, or BUS 232, with a minimum grade of C.

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COURSE DESCRIPTION:

The standard techniques of multiple regression analysis, analysis of variance, and analysis of covariance, and their role in observational and experimental studies. This course may not be used to satisfy the upper division requirements of the Statistics major or honours program. Quantitative.

COURSE DETAILS:

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Modes of teaching:

Distance Education

This course will have some videos, all of which are asynchronous. There will be no live lectures

Outline: The course will cover most of Chapters 1-5 and Sections 7.1 & 7.2.

1. Review: Important concepts from the first course in statistics will be reviewed.
2. Simple linear regression (SLR): models summarizing the relationship between two quantitative variables. This includes the estimation and interpretation of model parameters, assessment of the model's fit, inference, and prediction.
3. Multiple regression: constructing models in which several explanatory variables are used to predict a response variable. (SLMWSDE)

