SPRING 2023 - STAT 475 D100

APPLIED DISCRETE DATA ANALYSIS (3)

Class Number: 5883 Delivery Method: In Person

COURSE TIMES + LOCATION:

Tu 2:30 PM – 4:20 PM
AQ 3154, Burnaby

Fr 3:30 PM – 4:20 PM
AQ 3154, Burnaby

EXAM TIMES + LOCATION:

Apr 16, 2023
7:00 PM – 10:00 PM
SSCC 9002, Burnaby

INSTRUCTOR:

Thomas Loughin
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PREREQUISITES:

STAT 302 or STAT 305 or STAT 350 or ECON 333 or equivalent, with a minimum grade of C-.

Description

CALENDAR DESCRIPTION:

Introduction to standard methodology for analyzing categorical data including chi-squared tests for two- and multi-way contingency tables, logistic regression, and loglinear (Poisson) regression. Students with credit for the former STAT 402 or 602 may not take this course for further credit. Quantitative.

COURSE DETAILS:

This course introduces students to the most important methods for analyzing categorical data. The focus of the course is twofold: classical methods in categorical data analysis, such as chi-squared tests, and logistic and loglinear (Poisson) regression techniques.

Introduction and review: likelihood methods and R
Analysis with binary variables
Analysis with multicategory variables
Analysis with count response
Model selection and evaluation
Further topics

This course is accredited under the Canadian Institute of Actuaries (CIA) University Accreditation Program (UAP). Details of required courses and grades at Simon Fraser University are available here (https://www.cia-ica.ca/membership/university-accreditation-program-home/accredited-universities/accredited-university-detail?pav_universityid=236ca8c4-60e5-e511-80b9-00155d111030).

In addition to the speci ic university's internal policies on conduct, including academic misconduct, candidates

ultimately destructive of the values of the university. Furthermore, it is unfair and discouraging to the majority of students who pursue their studies honestly. Scholarly integrity is required of all members of the university. http://www.sfu.ca/policies/gazette/student/s10-01.html