

2020 - 642 100

INTRODUCTION TO STATISTICAL COMPUTING AND EXPLORATORY DATA ANALYSIS - SAS (2)

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COURSE TIMES + LOCATION:

Th 12:30 PM – 2:20 PM

REMOTE LEARNING, Burnaby

EXAM TIMES + LOCATION:

Dec 9, 2020

12:00 PM – 3:00 PM

REMOTE LEARNING, Burnaby

PREREQUISITES:

STAT 285 or STAT 302 or STAT 305 or BUEC 333 or equivalent. Open only to students in departments other than Statistics and Actuarial Science.

CALENDAR DESCRIPTION:

Introduces the SAS statistical package. Data management; reading, editing and storing statistical data; data exploration and representation; summarizing data with tables, graphs and other statistical tools; and data simulation. Students with credit for STAT 340 or STAT 342 may not take STAT 642 for further credit.

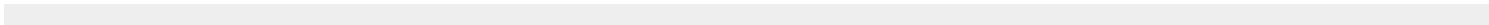
COURSE DETAILS:

Course Outline:

SAS component

1. What is SAS?
 - Downloading and installing
 - Overview of the system
2. Data management in SAS
 - a. Data input and structures
 - DATA step
 - Reading specially formatted files
 - Date/time/character formats and manipulations
 - Derived variables
 - Exporting
 - b. Data access: from database systems using query languages
- c. Merging and reshaping data
 - sorting/subsetting (set/if/where statements)/ merging/transposing
 - processing using DO LOOPS and SAS arrays
 - modify variable attributes
3. Data exploration and representation in SAS
 - basic procs (print, plot, tabulate, means, univariate, freq)
 - by statement and uses in analysis and simulation
 - output delivery system to extract information from analyses
4. Data simulation in SAS

Mode of teaching:



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their studies honestly. Scholarly integrity is required of all members of the University. <http://www.sfu.ca/policies/gazette/student/s10-01.html>

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TEACHING AT SFU IN FALL 2020

Teaching at SFU in fall 2020 will be conducted primarily through remote methods. There will be in-person course components in a few exceptional cases where this is fundamental to the educational goals of the course. Such course components will be clearly identified at registration as "live" vs. "at your own pace" (synchronous) vs. "at your own pace" (asynchronous). Enrollment