FALL 2017 - GHAH 852 G100

COURSE TIMES + LOCATION:

Mo, We 2:30 PM - 4:20 PM WMC 2532, Burnaby

INSTRUCTOR:

Thomas Loughin tloughin@sfu.ca 1 778 782-8037

Of ice: SC-K10549

PREREQUISITES:

STAT 830 and STAT 853 or permission of instructor.

DYgWidhicb

## CALENDAR DESCRIPTION:

An advanced treatment of modern methods of multivariate statistics and non-parametric regression. Topics may include: (1) dimension reduction techniques such as principal component analysis, multidimensional scaling and related extensions; (2) classi ication and clustering methods; (3) modern regression techniques such as generalized additive models, Gaussian process Magnicial Michael Isolay Innert annul nontidimensional scaling apage.

COURSE DEOP :

REQUIRED READING:

**The Elements of Statistical Learning: Data Mining, Inference, and Prediction (2nd ed.)** by Trevor Hastie, Robert Tibshirani, Jerome Friedman. Publisher: Springer

Book is available on-line through the SFU Library

eBook: ISBN 978-0-387-84858-7 Hardcover: ISBN 978-0-387-84857-0

**RECOMMENDED READING:** 

## Modern Multivariate Statistical Analysis: Regression, Classi ication, and Manifold Learning. by Alan J. Izenman. Publisher:

Springer

Book is available on-line through the SFU Library

eBook: ISBN 978-0-387-78189-1 Hardcover: ISBN 978-0-387-78188-4

**GRADUATE STUDIES NOTES:** 

Important dates and deadlines for graduate students are found here: http://www.sfu.ca/dean-gradstudies/current/important\_dates/guidelines.html. The deadline to drop a course with a 100% refund is the end of week 2. The deadline to drop with no notation on your transcript is the end of week 3.

## REGISTRAR NOTES:

SFU's Academic Integrity web site <a href="http://students.sfu.ca/academicintegrity.html">http://students.sfu.ca/academicintegrity.html</a> is illed with information on what is meant by academic dishonesty, where you can ind resources to help with your studies and the consequences of cheating. Check out the site for more information and videos that help explain the issues in plain English.

Each student is responsible for his or her conduct as it affects the University community. Academic dishonesty, in whatever form, is 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

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