



STAT 890

Selected Topics: Applied Statistical Methods for Physiology and Kinesiology

Spring 2012
Day Course

Students requiring accommodations as a result of disability, must contact the Centre for Students with Disabilities 778-782-3112 or csdo@sfu.ca

Instructor: [Dr. Carl Schwarz](#)

Prerequisite:

A basic knowledge of statistics, typically a single course in your undergraduate degree. Please contact instructor if unsure of your background.

Textbook:

No formal text assigned. We will be using a subset of material at <http://www.stat.sfu.ca/~cschwarz/CourseNotes>

Course Description:

The use of statistical techniques and mathematical models in Biomechanics, Physiology and Kinesiology with special emphasis on experimentation, observational studies, and statistical model construction.

Outline:

Introductory Review.

Experimental data – single factor/ two factor/ split-plot/ repeated measures.

Linear and Logistic Regression

Observational Studies

Grading Scheme:

Assignments 20%

Term Test 1 – 15%

Term Test 2 – 15%

Project - 20%

Final Exam- 30%

Grading is subject to change.

Students should be aware that they have certain rights to confidentiality concerning the return of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester. Students are reminded that Academic Honesty is a cornerstone of the acquisition of knowledge. Scholarly integrity is required of all members of the University. Please consult the General Guidelines of the calendar for more details.

Revised October 6, 2011