



STAT 403

Intermediate Sampling and Experimental Design

Spring 2009
Day Course

Students requiring accommodations as a result of disability, must contact the Centre for Students with Disabilities for Student Den-8-782-311 as a result

Prerequisite:

STAT 302 or 350. Students with credit for STAT 410 or 430 may not take STAT 403 for further credit. Statistics minor, major and honors students may not use this course to satisfy the required number of elective hours of upper division Statistics. However, they may include the course to satisfy the total number of required hours of upper division credit. Intended to be particularly accessible to students who are not specializing in Statistics.

Textbook:

There is no formal text assigned for this course.

Calendar Description:

A practical introduction to useful sampling techniques and intermediate level experimental designs. **Quantitative.**

Outline:

Sampling and experimentation are major components of much modern research, and STAT 403 will develop practical expertise in these areas. This new course is required by students in the proposed Environmental Science program who choose as an area of concentration, one of biology, chemistry, or pollutant transport. Particular emphasis will be placed on environmental applications.

The course is designed to take students beyond the basic concepts introduced in earlier courses, and to generate familiarity with intermediate-level designs that are commonly deployed. Successful graduates would, for example, be able to work with the sampling schemes currently being used to monitor shell fish populations on the B.C. North Coast. They should also have gained practical experience designing experiments that involve more than