



STAT 890-4

Selected Topics in Statistics: Biometrical Genetics

Fall 2005

DAY COURSE

Students requiring accommodations as a result of disability, must contact the Centre for Students with Disabilities 604-291-3112 or csdo@sfu.ca

Instructor: G. Joo-Jeon

Textbook:

Lecture Notes

Course Description:

An introduction to the analytical methods for genetic data.

Outline:

1. Theory of Mendelian Genetics
 2. Quantitative Genetics
 3. Genetic Changes due to Natural and Artificial Selection
 4. Linear Modeling for Estimation of Genetic Parameters
 5. Mapping methodologies of Quantitative Trait Loci
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Grading:

In Class Exam – 50%

Presentation – 50%

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 September 2005