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. Steven Thompson

Prerequisite:

STAT 350 (or MATH 372)

Textbook:

Design of Experiments: Statistical Principles of Research Design and Analysis (2nd ed.) by Robert O. Kuehl. Publisher: Duxbury

Calendar Description:

An extension of the designs discussed in STAT 350 to include more than one blocking variable, incomplete block designs, fractional factorial designs, and response surface methods. **Quantitative.**

Outline:

- 1. Ideas in design and analysis of experiments.
- 2. Statistical and design concepts. Experiments, sampling, observational studies, natural experiments.
- 3. Completely randomized designs, single treatment factor.
- 4. Blocking in Experiments.
- 5. Factorial designs.
- 6. Response surface methodology, regression, exploratory experiments, sequence of experiments.