

STA332/STA1004
Experimental Design
Winter 2009

Course Outline

January 7, 2009

Course Description This cross-listed course covers a number of topics used in the design and analysis of experiments. The course is intended for students of statistics as well as students of other disciplines (e.g. engineering, experimental science, etc.) who will use experimental design and analysis in their work.

The topics covered will include randomization, blocking, Latin squares, balanced incomplete block designs, factorial experiments, confounding and fractional replication, orthogonal polynomials, response surface methods. Additional topics will be covered based on students' interests as time permits.

Prerequisite STA302 / STA352 / ECO327 / ECO 357

Exclusion STA2004

Course Schedule Wednesday 6:00 p.m. – 9:00 p.m.

Class Location Changed

- location was originally SS2108
- now changed to **SS2102**
- On Feb 11 class will be held in LM 162

Required Text Dean, A. and Voss, D. (2003) "Design and Analysis of Experiments", New York, Springer-Verlag New York, Inc.

Computing Students will create their own computing account on the university's CQUEST system by following instructions found at <http://www.cquest.utoronto.ca>. SAS software will be used for assignments. Although students will not be tested on the use of SAS, familiarity with SAS output is required, since it may appear on the tests, assignments, and final exam.

Course Evaluation Course evaluation will be as follows:

- 15% Assignment #1 due January 28, 2009
- 15% Assignment #2 due March 25, 2009
- 30% Midterm Test To be held on Wed, Feb 25, 2009 from 6-8 pm
- 40% Final Exam Held during exam period; covers the entire course.

Note: Late assignments will be given a grade of 0 unless accompanied by medical documentation. There will be no make-up test; students with medical documentation for a missed test will have the weight of the test re-allocated to the final examination.

Instructor's Details

Instructor:	Dr. Ellen Maki
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Lecture Notes To receive an electronic pdf copy of the lecture notes, send an e-mail message to ellen.maki@sympatico.ca with "STA332 Lecture Notes" in the subject line. Lecture notes will be e-mailed weekly to the e-mail address from which the message was sent.