

STATISTICS 4410
STATISTICAL INFERENCE II

This is a third course in mathematical statistics designed for senior-level undergraduate students. It is a required course for students intending to do an honours degree in statistics.

Text.

1. *Statistical Inference* by G. Casella and R.L. Berger
2. *Introduction to Mathematical Statistics* by R. V. Hogg & A. T. Craig.

Marks. Set after discussion with the students but usually following the pattern: Assignments 20%, midterm exam 30%, and final exam 50%.

Calendar description. **4410 Statistical Inference II** covers multivariate normal distributions, quadratic forms of normal random variables, analysis of variance, multiple comparisons, distributions of quadratic forms, independence of quadratic forms, regression, distributions of order statistics, nonparametric statistics.

Prerequisite: Mathematics 2051 and Statistics 3411.

Offered: *Contact the Deputy Head (Statistics) in the Department of Mathematics and Statistics for information regarding the scheduling of this course.*