Memorial University
Department of Mathematics and Statistics

PhD COMPREHENSIVE EXAMINATION
QUALIFYING REVIEW
STATISTICS – SYLLABUS

The student should be notified, in writing, of the dates and times of his/her Comprehensive Exam (Part I) including a syllabus. The topics to be covered in the exam are:

(i) Probability:

(ii) Mathematical statistics, inference.

(iii) Continuous multivariate analysis
- RA Johnson and DW Wichern. *Applied Multivariate Statistical Analysis*. Ch 1, 2A, 3 (sec 3.5-3.6), 4 (sec 4.1-4.5) 5 (sec 5/1-5.5), 6 (sec 6.1-6.5), 8 (sec 8.1-8.4) and 11 (sec 11.1-11.6).

(iv) Regression

(v) Sampling
- S Thompson. *Sampling*. Ch 2, 4-8, 11-12, 15-18.

(vi) Categorical data analysis
- A Agresti. *Categorical Data Analysis*. Ch 2-6, 8.

(vii) Experimental design