

Syllabus for STA 452/2112

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1 Contents

Review of probability theory, convergence of random variables, point estimation, maximum likelihood estimation.

2 Prerequisites

- Prerequisite: MAT223H1/MAT240H1; MAT235Y1/MAT237Y1/MAT257Y1; STA257H1, STA347H1/STA355H1.
- Note: MAT237Y1/MAT257Y1; (MAT223H1, MAT224H1)/MAT240H1 very strongly recommended.
- Prerequisites will not be waived.

3 Textbook

We will use “Mathematical Statistics” by Keith Knight. We will cover the first 5 chapters of the book.

4 Evaluation

- The course's mark will be based on 3 take home assignments (30%), 1 midterm (30%) and one final examination (40%).
- Late assignments will lose marks at the rate of 10% per day.
- Students who miss the midterm will have to:
 - Bring a medical document to justify their absence AND
 - Take a make-up oral examination.