Syllabus for Preliminary Exam on Statistics

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Prelim will consist of material taught in MATH 6383 class by Dr. Jun (Spring semesters). The exam will cover most of the material in the book, *Statistical Inference*, by Casella and Berger (2nd edition). In particular, the following chapters of the book will be relevant.

- All of Chapter 1

- All of Chapter 2

- All of Chapter 3

- All of Chapter 4 except 4.7

- All of Chapter 5 except 5.5.4, 5.6

- All of Chapter 7 except 7.2.3, 7.2.4, 7.3.3, 7.3.4

- All of Chapter 8 except 8.2.2, 8.2.3, 8.3.2, 8.3.3, 8.3.5

- For Chapter 9, basic concepts on confidence intervals (most of chapter 9 will be irrelevant, similarly how it was taught in MATH 6383)

- For Chapter 11, 11.2.1-11.2.4 and 11.3 only

- For Chapter 12, 12.2.2, 12.2.3, and 12.3 only