550.310 Probability and Statistics for the Physical and Information Sciences and Engineering
Spring 2005
Preparing for Exam #2
Bruno M. Jedynak (bruno.jedynak@jhu.edu)
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Material Covered Chapter 3 and Chapter 4 of the book, except 4.6. You will still need to know the basics from Chapters 1 and 2. The pdf studied in class will be reminded in the last page of the exam.

Exam format

- **Part I** Concepts. About 5 true/false and multiple choice questions. This will be about 15% of the exam. questions may have to do with definitions and other concepts from class.

- **Part II** Problem solving. 3 to 5 problems. Each contains several questions to solve numerically or theoretically (i.e proofs of formulae or propositions). These will be open ended and make about 85% of the exam. Examples of the type of problems are homework problems, problems worked in lecture or section, and proofs or derivations done in lecture.

Hints, tips and Other Exam Facts

- The exam is closed book. You will have 45 minutes. Papers will be collected promptly at due time. If it is not turned in by then, it will not be graded.
• It is a good idea to review homework problems as well as problems, proofs, and concepts discussed in class. In particular, pay attention to problems which you had trouble with the first time around.

• Extra problems from previous exams are posted on the web site.

• The exam problems will not necessarily be in the sequence that topics are presented in the book and problems may cover multiple topics at once.

• The exam will be graded out of 100 points. The point value of each question will be given. Spend more time on questions worth more points, but don’t get yourself caught up for too long on a question you are having trouble with.

• You will need a calculator, but it must be only a simple calculator. No programmable calculator, graphing calculators or cell phone calculator. If you bring such a calculator, it will be taken and you will be stuck without one. There will be no sharing of calculators. However, note that exam answers can be left in simplified arithmetic forms, such as \( \frac{5}{9} \) or \( 6 \times (.04)^{12} + 4 \times (0.96)^8 \). Calculations such as combinations and permutations formulas must be worked out. Note that if a question asks you to compare a number to the answer from a previous question, you will eventually need to fully compute these arithmetic forms.