The text for the course is *Probability and Statistics for Engineers and Scientists* by Anthony Hayter. Currently, this book is also the text in ISyE 2028. (Quite a few students have mentioned that *The Probability Tutoring Book* written by Carol Ash and published by IEEE Press helped them a lot in this course.) We will cover the first 5 chapters of our text, which include the following topics:

1. Sample Spaces, Events, and the Axioms of Probability
2. Random Variables
3. Expectations
4. Discrete Distributions
5. Continuous Distributions
6. Normal Distribution

The grading will be based on two tests (25% each), a final (30%), and homework (20%). Some of the homework assignments may involve Maple, Excel or Minitab, which are available in the undergraduate computer lab. Make sure that your name, course number, and section letter are given on all assignments and tests. The first test is scheduled for September 27th and the second will probably be November 10th. During tests, you will not be allowed to use books, notes, or calculators. I rarely give partial credit on test problems. Without prior arrangement, makeup exams are not given. Inform your professors (especially physics) of exam conflicts in plenty of time.

Students often find a first course in probability difficult. However, the ideas and material in this course will be used in most of the ISyE courses. Consequently, it will be a big advantage if you learn this material well; otherwise, you will be handicapped in future courses. Doing and understanding the homework problems will help you learn the material. The first homework should be on the back of this sheet. Late homework will not be accepted. I will post information such as old tests on our course web page at:

<http://www.isye.gatech.edu/people/faculty/Robert_Foley/classes/2027/ie2027.html>

of ISyE 2027; however, you are prohibited from using homeworks and solutions to homework from previous semesters of 2027 unless they are given to you on my web page. Students in this class are expected to abide by the Georgia Tech Honor Code. The complete text of the Academic Honor Code may be found at

<http://www.deanofstudents.gatech.edu/integrity/policies/honor_code.html>