

**CSE 107**  
**Probability and Statistics for Engineers**  
**Projected Reading Schedule**

*Introduction to Probability*

by Bertsekas and Tsitsiklis, 2<sup>nd</sup> edition, Athena Scientific 2008 (ISBN 978-1886529236)

| Week | Topics                                         | Sections | Exams     |
|------|------------------------------------------------|----------|-----------|
| 1    | Probability Axioms, Conditional Probability    | 1.1-1.3  | -----     |
| 2    | Total Probability Theorem, Independence        | 1.4-1.6  | -----     |
| 3    | Discrete Random Variables, PMFs                | 2.1-2.3  | -----     |
| 4    | Expectation, Mean, Variance, Moments           | 2.4-2.7  | Midterm 1 |
| 5    | Continuous Random Variables, PDFs, CDFs        | 3.1, 3.2 | -----     |
| 6    | Normal Distribution, Joint PDFs                | 3.3-3.6  | -----     |
| 7    | Derived Distributions, Covariance, Correlation | 4.1-4.3  | -----     |
| 8    | Limit Theorems                                 | 5.1-5.4  | Midterm 2 |
| 9    | Bernoulli Process, Poisson Process             | 6.1, 6.2 | -----     |
| 10   | Markov Chains                                  | 7.1-7.3  | -----     |