List of Topics

Topics relative to project 1:

1. Microsoft Equation Editor
2. Writing formulas and evaluating functions in Excel
3. Summation (Know how to do by hand, and using Excel)
4. Basic set theory
5. Basic probability
6. Dcount, Daverage, and Filtering
7. Introduction to random variables
8. Expected value
9. Conditional probability
10. Independence
11. Partitions of the sample space
12. Bayes’ theorem

Topics relative to project 2:

1. Simple and compound interest
2. Histograms
3. Discrete probability distributions
   - finite random variables
   - probability mass function (p.m.f.)
   - cumulative probability distribution function (c.d.f.)
   - Bernoulli trials and Binomial distributions
4. Continuous probability distributions
   - uniform distribution function
   - exponential distribution function
5. Random sampling and generating a probability distribution from a random sample
6. Simulation