

Exam 1 Info. (Spring 2020)

STAT 330 - Section 2

1. Where to go and when?

- In-class exam, Hamilton 0169
- 3:10 pm – 4:00 pm on Wednesday, February 12th

2. What to study?

- Lecture Notes 1 - 4
- Homework 1, 2, and 3
- Practice Exam 1 (See “Exam 1” link in Canvas)
- Textbook (Baron): Ch 2

3. What to bring?

- Closed book
- You are only allowed to bring a **single** 8.5” × 11.0” formula sheet to the exam. You can write anything you want on your formula sheet (both sides!)
- You Need to Bring: Calculator (But, no phones, no calculators with internet access, etc!), pencils, and eraser.

Summary of Topics from Lecture

1. Components of a random experiment: Sample spaces (discrete vs. continuous), events
2. Events in set notation and venn diagrams/Box shown in lecture
Kolmogorov's axioms and useful consequences
3. Probability models for equally likely outcomes,
Counting
 - Summation/Multiplication principle
 - Ordered samples with/without replacement (permutation)
 - Unordered sample without replacement (combination)
4. Conditional Probability and Independence of events,
Reliability of Systems
5. Law of Total Probability,
Bayes' Rule