

**AM 165: Homework # 5 (due Oct 19)**

The book we refer to is Wackerly, Mendenhall & Scheaffer, *Mathematical Statistics with Applications* (6th Edition).

- Read Chapter 5 (except Section 5.10).
- Solve problems 4.46, 4.47, 4.50, 4.60, 4.77, 5.2, 5.6, 5.9, 5.12.
- Solve problem 4.142. Also answer the following question: Given that the applicant with an 8:15 A.M. appointment has to wait,
  1. what is the probability that the waiting time is more than 20 minutes?
  2. what is the expected value of the waiting time?