

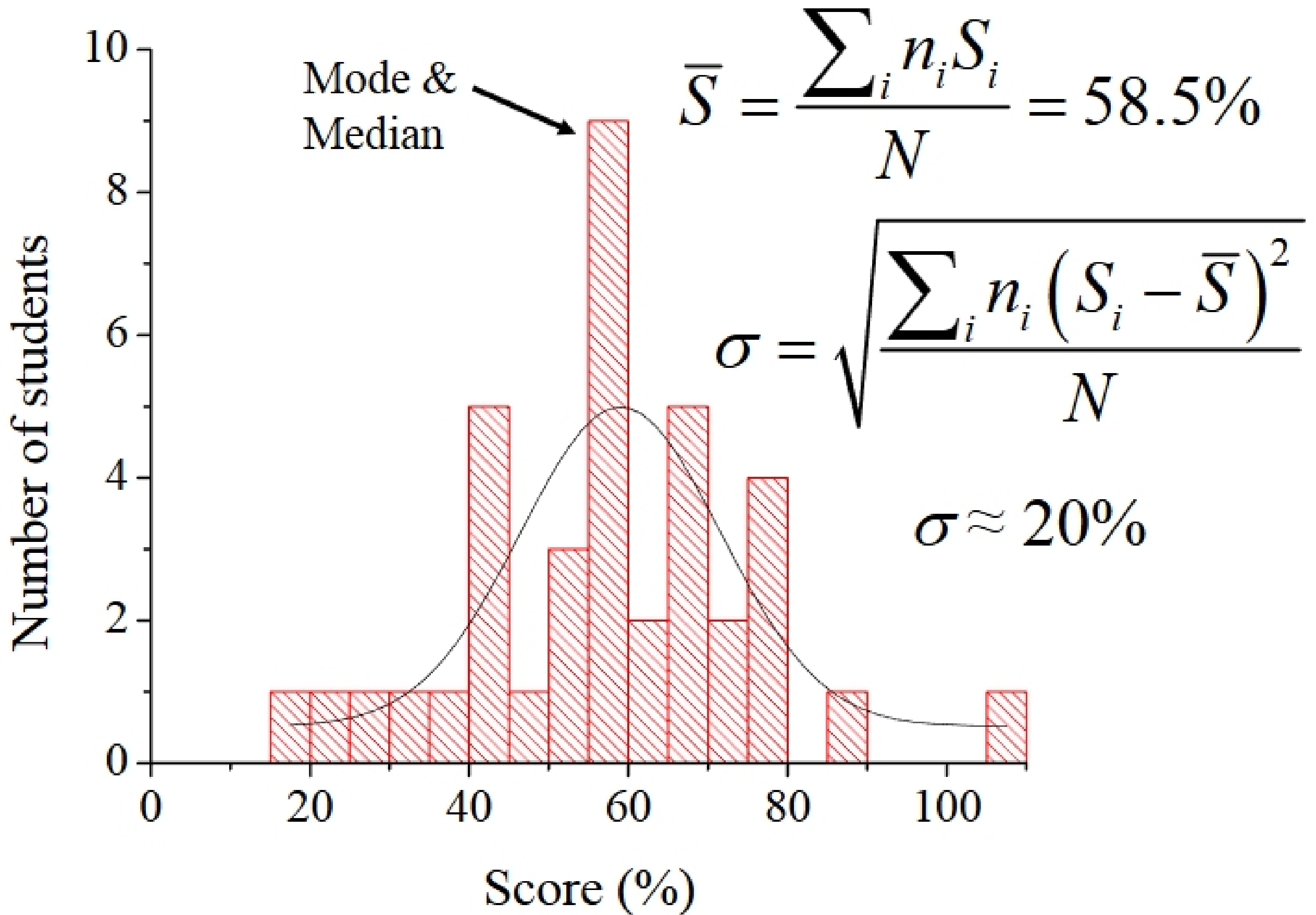
Lecture 15 — The Canonical Ensemble

Chapter 5, Wednesday February 13th

- Exam 1 statistics
- The Canonical Ensemble
- The Boltzmann probability distribution
- The partition function
- Entropy and the canonical ensemble
- The bridge to thermodynamics through Z

Reading: All of chapter 5 (pages 91 - 123)
I will assign homework on Friday

Exam 1 Statistics



The Canonical Ensemble

Thermal reservoir at
temperature T

