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Statistics 250

**Interactive
Lecture Notes**

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Stat 250 Gunderson Lecture Notes

Introduction

Statistics...the most important science in the whole world: for upon it depends the practical application of every other science and of every art: the one science essential to all political and social administration, all education, all organization based on experience, for it only gives results of our experience." *Florence Nightingale, Statistician*



Definitions:

Statistics are numbers measured for some purpose.

Statistics is a collection of procedures and principles for gathering data and analyzing information in order to help people make decisions when faced with uncertainty.

Course Goal: Learn various tools for using data to gain understanding and make sound decisions about the world around us.