A P S T A T I S T I C S

Chapter 2
DESCRIBING *Location*

T H E   N O R M A L   D I S T R I B U T I O N S

Chapter Objectives

- ☐ Compute measures of relative standing for individual values in a distribution, including z-scores and percentile ranks.

- ☐ Demonstrate an understanding of a density curve, including its mean and median.

- ☐ Demonstrate an understanding of the Normal Distribution and the Empirical 68-95-99.7 Rule.

- ☐ Use tables and technology to find the proportion of observations over intervals and above or below values.

- ☐ Use a variety of techniques, including a Normal Quantile/Probability Plot, to assess the Normality of a distribution.

This chapter introduces you to the concept of describing an observations location within a distribution. You will learn how to use the Normal distribution to find standardized values, percentile ranks, and proportions of observations on intervals. You will also be introduced to methods for assessing the Normality of a distribution.

CHAPTER 2

☑ Introduction

☑ Measures of Relative Standing and Density Curves

- ♟ Standardized Values
- ♟ z-scores
- ♟ Percentiles
- ♟ Density Curves

☑ Normal Distributions

- ♟ Empirical Rule
- ♟ Standard Normal Distribution
- ♟ Standard Normal Table
- ♟ Assessing Normality
- ♟ Normal Quantile/Probability Plot

MON	TUE	WED	THU	FRI
		26 Ch2 Intro	**27 Sect 2.1**	**28 Sect 2.1**
		• Normal Distribution Data Collection • Describing Relative Standing	• z-scores • Percentiles • Density Curves	**Quiz 2.1**
		2.1-4	2.7-12, 15, 18, 19	Happy Homecoming!
1 Sect 2.2	**2 Sect 2.2**	**3 Sect 2.2**	**4 Sect 2.2**	**5 Review**
• Normal Distributions • Empirical Rule	• Standard Normal Distribution • Standard Normal Table	• Assessing Normality • Normal Quantile Plot	**Quiz 2.2**	**Chapter Review Case Study**
2.23, 25-26, 31-36	Practice Worksheet	2.37, 39, 40	Case Closed	2.53-60
8 Exam	**9 Chapter 3**			
Chapter 2 Exam				