



The image shows the back cover of the textbook "Discovering Statistics: Table of Contents". It features the same large, stylized, light blue eagle silhouette as the front cover. In the top left corner, there is a small circular logo with a blue eagle, followed by the text "HAWKES LEARNING SYSTEMS" and "math courseware specialists". The table of contents is listed in the center of the cover, with chapter titles in bold blue text and section numbers in blue text. The chapters are: Chapter 1: Statistics and Problem Solving (1.1 – 1.3 Getting Started), Chapter 2: Data, Reality and Problem Solving (2.1 – 2.4 The Reality of Conducting a Study, 2.5 – 2.6 Levels of Measurement), and Chapter 3: Organizing, Displaying, and Interpreting Data (ch 3a Frequency Distributions, ch 3b Graphical Displays of Data: Pie Charts and Bar Graphs, ch 3c Graphical Displays of Data: Histograms, Polygons, Stem and Leaf Plots).

<b><u>Chapter 1:</u></b>	<b>Statistics and Problem Solving</b>
<u>1.1 – 1.3</u>	Getting Started
<b><u>Chapter 2:</u></b>	<b>Data, Reality and Problem Solving</b>
<u>2.1 – 2.4</u>	The Reality of Conducting a Study
<u>2.5 – 2.6</u>	Levels of Measurement
<b><u>Chapter 3:</u></b>	<b>Organizing, Displaying, and Interpreting Data</b>
<u>ch 3a</u>	Frequency Distributions
<u>ch 3b</u>	Graphical Displays of Data: Pie Charts and Bar Graphs
<u>ch 3c</u>	Graphical Displays of Data: Histograms, Polygons, Stem and Leaf Plots



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#### **Chapter 4: Describing Data from One Variable**

[4.1 – 4.3a](#) Measures of Location

[4.1 – 4.3b](#) Measures of Dispersion

[4.4](#) Measures of Relative Position

[4.5 – 4.10](#) Applying the Standard Deviation

#### **Chapter 5: Discovering Relationships**

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[5.6 – 5.9](#) Fitting a Linear Model

#### **Chapter 6: Probability, Randomness, and Uncertainty**

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[6.5 – 6.11](#) Basic Probability Rules

[6.12a](#) Basic Counting Rules



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#### **Chapter 7: Probability Distributions, Information about the Future**

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[8.3](#) Standard Normal

[8.4](#) z-Transformations

[8.5](#) Approximations to Other Distributions



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### **Chapter 9: Samples and Sampling Distributions**

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- [9.7](#) Central Limit Theorem
- [9.8](#) Sampling Distributions (Proportions)

### **Chapter 10: Estimating Means and Proportions**

- [10.1 – 10.3](#) Introduction to Estimating Means
- [10.4, 10.6](#) Interval Estimation of the Population Mean
- [10.5a-b](#) Interval Estimation of the Population Mean for a Normal Population with Sigma Unknown
- [10.7 – 10.9](#) Estimation (Proportions)



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### **Chapter 11: Introduction to Hypothesis Testing**

- [11.1](#) Developing a Hypothesis
- [11.2](#) Reaching a Conclusion
- [11.4](#) Hypothesis Testing About a Population Mean

### **Chapter 12: Additional Topics with Hypothesis Testing**

- [12.1](#) Hypothesis Testing Proportions
- [12.2](#) Testing Hypothesis about a Population Variance
- [12.3](#) Comparing Two Means
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### **Chapter 13: Regression, Inference, and Model Building**

- [13.1](#) Assumptions of the Simple Linear Model
- [13.2](#) How Good is the Estimate of  $\beta_1$ ?
- [13.4](#) Inference Concerning Model's Prediction
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### **Chapter 14: The Analysis of Variance (ANOVA)**

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