

Statistics McGraw Hill - Pacing Guide

Semester 1		
Dates		Number of Days
August 17 - September 4	Chapter 1 – The Nature of Statistics	
	Essential Question: How can we accurately collect and describe data in a useful way?	
	1-1 Studying Statistics	2 days
	1-2 Variables and Types of Data	3 days
	1-3 Data Collection and Sampling Techniques	2 days
	1-4 Experimental Design	3 days
	1-5 Computers and Calculators	2 days
	Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>	3 days
September 8 - September 25 14 days	Chapter 2 – Frequency Distributions and Graphs	
	Essential Question: How can organize and represent data?	
	2-1 Organizaing Data	2 days
	2-2 Histograms, Frequency Polygons and Ogives	5 days
	2-3 Other Types of Graphs	4 days
	Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>	3 days
September 28 - October 2	IAB/fIAB #1 OR Project	September 28 - October 2
October 5 - October 30 18 days	Chapter 3 – Data Description	
	Essential Question: How can we summarize data in a concise but meaningful way?	
	3-1 Measures of Central Tendency	3 days
	3-2 Measures of Variation	5 days
	3-3 Measures of Position	5 days
	3-4 Exploratory Data Analysis	2 days
	Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>	3 days
November 2 - December 9 22 days	Chapter 4 – Probability and Counting Rules	
	Essential Question: How do we determine the probability of events?	
	4-1 Sample Spaces and Probability	5 days
	4-2 The Addition Rules for Probability	5 days
	4-3 The Multiplication Rules and Conditional Probability	3 days
	4-4 Counting Rules	3 days
	4-5 Probability and Counting Rules	3 days
	Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>	2 days
December 15 - December 17	Final Exam (IAB/fIAB#2 OR Project)	December 15 - December 17

Semester 2		
Dates		Number of Days
	Chapter 5 – Discrete Probability Distributions	
	Essential Question: What is a probability distribution, and how do we use one to determine the probability of events?	
	5-1 Probability Distributions	5 days

January 14 - February 11 20 days	5-2	Mean, Variance, Standard Deviation, and Expectation	5 days
	5-3	The Binomial Distribution	4 days
	5-4	Other Types of Distributions	3 days
	Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>		3 days
February 16 - March 5 14 days	Chapter 6 - The Normal Distribution		
	Essential Question: What is a normal distribution, and how can we use it to determine the probability of events?		
	6-1	Normal Distributions	4 days
	6-2	Applications of the Normal Distribution	3 days
	6-3	The Central Limit Theorem	2 days
	6-4	The Normal Approximation to the Binomial Distribution	4 days
	Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>		1 day
March 8 - March 12	IAB/fIAB#3 OR Project		March 8 - March 12
March 16 - April 16 17 days	Chapter 7 – Confidence Intervals and Sample Size		
	Essential Question: How can we determine good estimates for population parameters?		
	7-1	Confidence Intervals	3 days
	7-2	Confidence Intervals for the Mean When Standard Deviation is Known	2 days
	7-3	Confidence Intervals for the Mean When Standard Deviation is Unknown	2 days
	7-4	Confidence Intervals and Sample Size for Proportions	2 days
	7-5	Confidence Intervals for Variances and Standard Deviations	3 days
Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>		5 days	
April 19 - May 7 15 days	Chapter 8 – Hypothesis Testing		
	Essential Question: How can we test the value of a population parameter?		
	8-1	Steps in Hypothesis-Traditional Method	3 days
	8-2	z Test for a Mean	2 days
	8-3	t Test for a Mean	2 days
	8-4	z Test for a Proportion	2 days
	8-5	χ^2 Test for a Variance or Standard Deviation	2 days
	8-6	Additional Topics Regarding Hypothesis Testing	2 days
Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>		2 days	
May 10 - 28 15 days	Chapter 9 – Testing the Difference Between Two Means, Two Proportions, and Two Variances		
	Essential Question: How can we determine if there is a difference between two populations?		
	9-1	Testing the Difference Between Two Parameters	2 days
	9-2	Testing the Difference Between Two Means: Using the z Test	2 days
	9-3	Testing the Difference Between Two Means of Independent Samples: Using the t Test	2 days
	9-4	Testing the Difference Between Two Means: Dependent Samples	2 days
	9-5	Testing the Different Between Proportions	2 days
	9-6	Testing the Difference Between Two Variances	2 days
Additional/Extra Instructional Days - Unit Review/ <u>Assessment</u>		3 days	
May 3 - May 28	CAASPP Testing		May 3 - May 28
June 4 - June 8	Final Exam		June 4 - June 8

Extra Instructional Days

Closing the Unit

Unit Review, Math Modeling, Unit Assessment, Performance Task, FIABs

Intervention	Fluency Practice, Differentiation (small group lessons, ALEKS, personalized practice)
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