AP Statistics

August 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	**2**	**3** ***Teacher Work Day*** ***No School***	**4** ***Teacher Work Day*** ***No School***	**5** ***Teacher Work Day*** ***No School***	**6**
7	**8** ***Freshmen Orientation***	**9** *Start of 1st semester* Water, Water Everywhere!	**10 / 11** Go over Class Policies Check out books Definitions: Chapter P Assign 1: # P.1 – P.5, P.9 – P13		**12** Chapter P Assign 2: # P.19, P.21, P.22, P.24, P.27, P.28	**13**
14	**15** Start Chapter 1 Chapter P Definitions due	**16** ** Quiz Chapter P Assign 1 & 2 due	**17 / 18** Chapter 1 *Displays for Data: Bar Graphs, Pie Graphs, Stemplots* Assign 3: #1.1, 1.2, 1.4, 1.5, 1.6		**19** *Histograms, Ogives, and Timeplots* Assign 4: #1.7, 1.8, 1.11, 1.12, 1.13, 1.18, 1.25, 1.26	**20**
21	**22** *Mean, Median, Mode, Range, Boxplots, IQR, Outliers* Assign 5: #1.27, 1.29, 1.31, 1.33, 1.35, 1.36	**23** ** Quiz 1.1 *Standard deviation, variance* Assign 6: #1.39, 1.40,1.42, 1.43, 1.45, 1.46 Assign 3, 4, & 5 due	**24 / 25** *Comparing Distributions* Assign 7: #1.47, 1.49, 1.50, 1.53		**26** ** Quiz 1.2 Chapter 2 *Measures of relative standing* Assign 8: #2.2, 2.3, 2.4, 2.7, 2.8	**27**
28	**29** *Density Curves, Normal Distributions* Assign 9: #2.9, 2.10, 2.12, 2.23, 2.24, 2.25	**30** ** Quiz 2.1 *Standard Normal Curve; Non-standard Normal Curves* Assign 10: #2.29, 2.32, 2.33, 2.35 Assign 6,7, & 8 due	**31 / 1** *Assessing Normality* *Practice with Density Curves* Assign 11: #2.36, 2.37, 2.38, 2.39,2.43, 2.44, 2.45, 2.48, 2.50 Start Chapter 1 & 2 Review (Assign 13)			

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September 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			31 / 1 *Assessing Normality* *Practice with Density Curves* Assign 11: #2.36, 2.37, 2.38, 2.39,2.43, 2.44, 2.45, 2.48, 2.50 Start Chapter 1 & 2 Review (Assign 13)		**2** ** Quiz 2.2 Work on Chapter 1 & 2 Review Assign 12: # 1.52, 1.55, 1.60, 1.61, 1.64, 1.66, 1.67, 1.70, 2.53, 2.54, 2.55, 2.58, 2.59	**3**
4	**5** ***Labor Day*** ***No School***	**6** Work / Review day for Chapter 1 & 2	**7** Chapter 3 *Scatterplots: constructing and interpreting* Assign 13: #3.1, 3.4, 3.5, 3.7, 3.9	**8 / 9** *** Test: Chapter 1 & 2 *** Chapter 1 & 2 Case Closed Due Assign 9 thru 12 due		**10** ***Homecoming Dance***
11	**12** *Correlation: Calculations and properties* Assign 14: # 3.13, 3.16, 3.19, 3.20, 3.23, 3.24	**13** *Linear Regression* Assign 15: #3.6, 3.29, 3.32 – 3.38	**14 / 15** *Analyzing Model Quality: Residuals and r^2* ** Quiz 3.1 Assign 16: #3.39, 3.41, 3.43, 3.47		**16** *Unusual Points in Regression: Outliers, Influential Points* Assign 17: #3.60, 3.61, 3.62	**17**
18	**19** *Cautions About Correlation and Regression* Assign 18: #3.46, 3.55, 3.70, 3.71	**20** Chapter 4 Transforming to Achieve Linearity Assign 19: #4.2, 4.4 Assign 16 thru 19 due	**21 / 22** ** Quiz 3.2/3.3 *Exponential Growth;* *Log y transformation* Assign 20: #4.5, 4.6, 4.9		**23** ***Teacher Work Day*** ***No School***	**24**
25	**26** *Power models; log x and log y transformations* Assign 21: #4.11, 4.12	**27 / 28** *Relationships between categorical variables* Assign 22: #4.23 - #4.25 Assign 18 thru 21 due		**29 / 30** ** Quiz 4.1 *Simpson's Paradox* Assign 23: #4.29, 4.31, 4.35		

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October 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	**3** *Establishing Causation* Assign 24: #4.41, 4.45, 4.50, 4.51	**4** *** Quiz 4.2/4.3** Chapter 3 & 4 Review Assign 25: #3.77, 3.80, 3.83, 3.84, 3.85, 4.37, 4.53, 4.54, 4.57	**5 / 6** Work / Review day for Chapter 3 & 4 Chapter 5 Activity 5A Assign 22 thru 25 due		**7** ***Teacher Work Day*** ***No School***	**8**
9	**10** *Sampling: Good vs.Bad* *Designing Polls and Surveys* Assign 26: #5.2, 5.6, 5.7, 5.9, 5.11, 5.24, 5.26, 5.32	**11** *Designing Polls and Surveys* Assign 27: #5.15, 5.16, 5.18, 5.19, 5.20, 5.25, 5.27	**12 / 13** ***** Test: Chapter 3 & 4 ***** Chapter 3 & 4 Case Closed due		**14** **** Quiz 5.1** Assign 26 thru 27 due	**15**
16	**17 thru 21** ***Fall Break*** ***No School***					**22**
23	**24** *Basics of Experiment Design* Assign 28: #5.33, 5.35, 5.37, 5.39, 5.40, 5.43	**25** *Principles of Experiment Design* Assign 29: # 5.45, 5.46, 5.47, 5.55, 5.57, 5.67	**26 / 27** *Matched Pairs Design* Standing v. Sitting HR AP Packet on Experiment Design		**28** **** Quiz 5.2** Work on AP Packet on Experimental Design	**29**
30	**31** Intro to Probobaility Simulation Discuss AP Packet on Experimental Design Assign 30: Intro to Prob Sim Wksht					

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November 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 Start Chapter 6: Simulations Assign 31: #6.1, 6.3, 6.13 AP Worksheet on Probability Simulation	**2 / 3** ***Quiz 6.1** Assign 32: #5.49, 5.62, 5.68, Discuss AP Packet on Experimental Design Assign 28 thru 30 due		**4** ***Teacher Work Day*** ***No School***	**5**
6	**7** Basic Probability Concepts Assign 33: #6.23, 6.24, 6.27-6.29, 6.33, 6.36	**8** Basic Probability Rules Assign 34: #6.37, 6.39, 6.43, 6.44	**9 / 10** *** **Test: Chapter 5 & 6.1** *** Assign 28, 29, 31, 32 due AP Packet / Chapter 5 & Prob Sim Worksheet (Assign 30)		**11** Independence and the Multiplication Rule Assign 35: #6.45, 6.47, 6.49, 6.61, 6.66, 6.67	**12**
13	**14** Conditional Probability Assign 36: #6.70, 6.72, 6.73, 6.78, 6.86 (a)-(d)	**15** ***Quiz 6.2**	**16 / 17** Independence and Bayes' Theorem Assign 37: #6.71, 6.81, 6.82, 6.87, 6.90, 6.91 Assign 33 thru 35 due		**18** Chapter 6 Review Assign 38: #6.97, 6.98, 6.99, 6.101 – 6.105	**19**
20	**21** Intro to Random Variables Assign 39: #7.2-5, 7.7, 7.9	**22** *** Quiz 6.3** Go over Test 5/6.1 Assign 36 thru 38 due	**23 thru 25** ***Thanksgiving Break*** ***No School***			**26**
27	**28** Mean and Variance of Random Variables Assign 40: #7.25, 7.30, 7.32, 7.33, 7.43 Assign 36 thru 38 due	**29** Rules for Mean and Variance Assign 41: #7.38, 7.39, 7.41, 7.47, 7.51	**30 / 1** Combining Normal Random Variables Assign 42: #7.44-46, 7.50			

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December 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			30 / 1 Combining Normal Random Variables Assign 42: #7.44-46, 7.50		**2** *** Quiz 7.1 / 7.2** 1st Semester Final Review 5, 6, & 7	**3**
4	**5** 1st Semester Final Review 5, 6, & 7 Questions	**6** 1st Semester Final Review 3 & 4	**7 / 8** ***** Test: Chapter 6.2, 6.3 & Chapter 7 ***** 1st Semester Final Review 3 & 4 Questions		**9** 1st Semester Final Review 1 & 2	**10**
11	**12** 1st Semester Final Review 1 & 2 Questions	**13** ***Finals*** **1st, 4th & 7th**	**14** ***Finals*** **2nd & 5th**	**15** ***Finals*** **3rd and 6th** *End of 1st semester*	**16** ***Teacher Work Day*** ***No School***	**17**
18	**19 thru 23** ***Winter Break*** ***No School***					**24**
25	**26 thru 30** ***Winter Break*** ***No School***					**31**

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January 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	**2** ***Winter Break*** ***No School***	**3** *Start of 2nd semester* Start Chapter 8: Binomial Settings & the Binomial Random Variable Assign 43: #8.1, 8.3, 8.4, 8.5, 8.8, 8.11, 8.12	**4 / 5** Binomial Distributions: Mean and Variance Assign 44: # 8.13, 8.14, 8.16, 8.23		**6** Normal Approximations to the Binomial Distribution: Binomial Simulations Assign 45: #8.19, 8.24, 8.27, 8.29, 8.30	**7**
8	**9** *** Quiz 8.1** Geometric Distributions Assign 46: #8.36, 8.41, 8.43, 8.44	**10** Start Chapter 9: What is a Sampling Distribution? Assign 47: #9.1, 9.2, 9.3 (a & b), 9.5 (a & b), 9.6,9.8, 9.10, 9.19	**11 / 12** *** Quiz 8.2** Sampling Distributions of Proportions Assign 48: #9.25, 9.27, 9.30 Assign 43 -45 due		**13** Sampling Distributions of $\bar{x}$ Assign 49: #.9.24, 9.31, 9.33	**14**
15	**16** ***MLK Day*** ***No School***	**17** Calculations involving $\bar{x}$ Assign 50: #9.35, 9.37, 9.38, 9.47	**18 / 19** *** Quiz 9.1** Chapter 8 / 9 Review Assign 51: # 8.50, 8.51, 8.52, 8.59, 8.60, 8.63, 8.65, 8.66, 8.67, 8.68 #9.49, 9.50, 9.51, 9.58 Assign 46-49 due		**20** ***Teacher Work Day*** ***No School***	**21**
22	**23** *** Quiz 9.2/9.3** Questions and Review for Chapter 8 / 9 Test	**24** Start Chapter 10: Idea of a Confidence Interval Assign 52: #10.1, 10.2, 10.5, 10.6	**25 / 26** ***** Test 8 & 9 ***** Assign 50 & 51 due Chapter 8 / 9 Study Guides due		**27** Confidence Interval for μ and σ when known Assign 53: #10.7, 10.9, 10.11, 10.12	**28**
29	**30** Confidence Interval Considerations Assign 54: #10.15 – 10.18	**31** Confidence Interval for μ and σ when unknown Assign 55: #10.13, 10.27, 10.28, 10.31				

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February 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 / 2 *** Quiz 10.1** Paired t procedures and Robustness of t procedures Assign 56: #10.35, 10.36, 10.42 Assign 52-53 due		**3** ***SNOW DAY ☺***	**4**
5	**6** Estimating an unknown population proportion Assign 57: #10.45, 10.46, 10.47, 10.49	**7** Determining sample size Assign 58: #10.52, 10.54, 10.55	**8 / 9** *** Quiz 10.2/10.3** Intro to Significance Tests Assign 59: #11.1, 11.3(a), 11.5, 11.6 Assign 54-56 due		**10** Components of Significance Tests Assign 60: #11.7, 11.8, 11.11, 11.12, 11.13, 11.14	**11**
12	**13** Inference Toolbox and Tests from CI's Assign 61: #11.27, 11.29, 11.31, 11.33	**14** Uses and abuses of Significance Tests Assign 62: #11.43-11.48	**15 / 16** *** Quiz 11.1/11.2** Type I and Type II Errors Assign 63 #11.49, 11.51, 11.53, 11.55, 11.56, 11.57 Assign 57-60 due		**17** **Quiz 11.3/11.4** Chapter 10 / 11 Test Review Assign 64: #10.66, #10.68, 10.72, 10.73 #11.36, 11.65, 11.66, 11.71, 11.72, 11.73	**18**
19	**20** ***President's Day*** ***No School***	**21** Chapter 10 / 11 Test Review	**22 / 23** ***** Test: Chapter 10 & 11 ***** Assign 61-64 due Case Closed 10 and 11 due		**24** Testing a claim about μ: one sample *t* test Assign 65: #12.1-12.6	**25**
26	**27** Paired *t* Tests Assign 66: #12.9, 12.10, 12.12, 12.16	**28** Testing a claim about *p* Assign 67: #12.23, 12.24, 12.25, 12.30	**29 / 1** *** Quiz 12.1** Comparing two population parameters: paired data vs. independent samples; estimating $\mu_1-\mu_2$ Assign 68: #13.1 – 13.4, 13.11			

AP Statistics

March 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			29 / 1 *** Quiz 12.1** Comparing two population parameters: paired data vs. independent samples; estimating $\mu_1-\mu_2$ Assign 68: #13.1 – 13.4, 13.11		**2** ***Teacher Work Day*** ***No School***	**3**
4	**5** *** Quiz 12.2**	**6 thru 9** ***TCAP Testing*** ***Tues: 1st & 2nd Wed: 3rd & 4th Thurs: 5th and 6th Fri: 7th & Mustang 55*** Examining two sided Hypothesis Tests (H_a: $\mu \neq \mu_o$) Assign 65-68 due				**10**
11	**12** Two sample *t* tests and assorted df possibilities Assign 69: #13.5, 13.7 – 13.9	**13** Two-sample *t* tests Assign 70: #13.13 – 13.15, 13.17	**14 / 15** *** Quiz 13.1** Estimating $p_1 - p_2$: The two-proportion *z* interval Assign 71: #13.23, 13.25, 13.27		**16** Significance tests for comparing two population proportions Assign 72: #13.29, 13.32, 13.33, 13.39	**17**
18	**19** *** Quiz 13.2** Chapter 12 / 13 Test Review Assign 73: #12.32, 12.35, 12.36, 13.40, 13.41, 13.44-47	**20** Chapter 12 / 13 Review and Questions Day	**21 / 22** ***** Test: Chapters 12 & 13 ***** Assign 69-73 due Case Closed Chapter 12 & 13 due		**23** ***Teacher Work Day*** ***No School***	**24**
25	**26 thru 30** ***Spring Break*** ***No School***					**31**

AP Statistics

April 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	**2** Chi-square goodness of fit test (M&Ms) Start Practice Exam 1 Assign 74: #14.1, 14.5, 14.8	**3** Chi-square test of homogeneity Assign 75: #14.11, 14.15, 14.16, 14.18	**4 / 5** Chi-square test of association / independence Assign 83: #14.22, 14.24, 14.25, 14.29, 14.35, 14.36, 14.39, 14.41		**6** **Project Overview**	**7**
8	**9** Start Practice Exam 2 Go over Practice Exam 1	**10** ** **Topic / Study Design Proposal due**	**11 / 12** ** **Quiz 14 (40 pts)** Project Surveys / Experiments Assign 74-76 due		**13** Project Surveys / Experiments	**14** ***PROM***
15	**16** Start Practice Exam 3 Go over Practice Exam 2	**17** Project Surveys / Experiments	**18 / 19** ** **Interim Report due** Project Surveys / Experiments Prepare for Presentations		**20** ***Teacher Work Day*** ***No School***	**21**
22	**23** ***AP Mock Exam Multiple Choice (Part IA, 20 ?'s)***	**24** ***ACT Testing***	**25 / 26** ***AP Mock Exam Part II: Free Response***		**27** ***AP Mock Exam Multiple Choice (Part IB, 20 ?'s)***	**28**
29	**30** Go Over Mock Exams / Group Evaluations					

AP Statistics

May 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 Go Over Mock Exams / Group Evaluations	**2 / 3** Go Over Mock Exams / Group Evaluations **** Rough Draft of Report due**		**4** Go Over Mock Exams / Group Evaluations Go over Practice Exam 3	**5**
6	**7** Prepare for Presentations	**8** **** Written Reports / Presentations**	**9 / 10** **** Written Reports / Presentations** **Seniors Last Day** ☺		**11**	**12**
13	**14**	**15**	**16** **** AP Statistics **** **** EXAM ****	**17**	**18**	**19**
20	**21**	**22**	**23** *End of 2nd semester*	**24** ***Teacher Work Day*** ***No School***	**25**	**26**
27	**28**	**29**	**30**	**31**		