AP Stats-Tentative Schedule

January 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	**2**	3
4	**5**	**6**	**7**	**80**	**9**	10
11	**12**	**13**	**14**	**15**	**16**	17
18 Day 1-2	**19** M L King Day	**20**	**21**	**22-Day 1** *Define Statistics *Define Sampling types *Discuss sources of bias in sampling and survey	**23** *Discuss collecting and organizing data *Define categorical data and quantitative data *Construct a frequency table *Construct pie chart and bar chart	24
25-Week 1 Day 3-7	**26** *Construct frequency histogram, relative frequency histogram, stem and leaf plot, dot plot	**27** *Construct Box Plot *Identify outliers *5 number summary *Practice Test Prep Questions	**28** *Define Standard Deviation *Compare skewed and symmetrical distributions *Compare measures of spread and center within groups and among different data sets	**29** *Calculate standard deviation and variance *Create an ogive	**30** *Group dice activity *Have students record all data needed to create graphs	31

February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-**Week 2** Day 8-12	**2-Training** ***Sub Plans** *Students work in groups on projects *Summarizing univariate data *Compare univariate data	**3-Training** ***Sub Plans** *Students work in groups on projects *Summarizing univariate data *Compare univariate data	**4-Training** ***Sub Plans** *Students work in groups on projects *Summarizing univariate data *Compare univariate data	**5** *Students work in groups on projects *Summarizing univariate data *Compare univariate data	**6** *Practice Exam Question *Practice interpreting, summarizing, and comparing univariate data *First Discussion Problem assigned	7
8-Week 3 Day13-17	**9** *Review Discussion problem *Define census, experiment, observational study, treatment, control group, blinding, placebo effect, confounding variables, blocking, randomization	**10-Quiz** *Quiz-Measures of spread and center/analyzing graphs *Introduce Coefficient of Variation	**11** *Define Chebyshev's Theorem *Apply Chebyshev's Theorem to real world scenarios	**12** *Review Quiz *Define Normal Distribution *Introduce Empirical Rule *Calculate Probabilities using Empirical Rule	**13** *Introduction to Standard Normal Curve *Calculating z-scores	14 Valentine's Day
15-**Week 4** Day18-21	**16-Snow Day**	**17-Snow Day**	**18-Snow Day**	**19-Snow Day**	**20No School** **Optional Workday**	21
22-Week 5 Day 22-26	**23-** *Use z-scores and standard normal curve to find area under the curve in normal distributions ***Introduce inverse normal** *Density Curves	**24-Snow Day** **Training**	**25-Snow Day** **Training**	**26-Snow Day**	**27-Snow day**	28

March 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-**Week 6** Day 27-31	**2** *Practice Using Normal Distribution *Introduce inverse normal calculations *Practice with Control Charts	**3** *More normal dist. and z-scores *Density Curves	**4-Quiz** **Normal Distribution**	**5** *Introduce Probabilities using relative frequency and density curves	**6** *Practice on Law of Large Numbers *P(A)=? *Probabilities of compound events *Expected Value(theoretical mean) *define independent and mutually exclusive	7
8-**Week 7** Day 32-36	**9-Test Review** *interpreting, summarizing, and comparing univariate data *Normal distribution and chebyshevs theorem	**10-Test 1** *Cumulative test	**11** *Practice using probabilities *make tree diagrams and introduce counting techniques	**12** *Continue continue methods *Factorials *Permutations *Combinations	**13** *Practice using probabilities	14
15-**Week 8** Day 37-41	**16** *Practice using probabilities *Expected Value(theoretical mean)	**17** *Define Binomial distribution/Bernoulli trials *Discuss discrete and continuous random variables *Find E(X) and V(X)	**18-Quiz** Compound and conditional *Permutations *Combinations	**19** *The Binomial Experiment! *Define successes and Failures *Binomial distribution/Bernoulli trials μ and σ	**20** *Extra practice on binomial probabilities *Define Geometric probabilities *Normal Approximation to binomial	21
22-Week 9 Day 42-45	**23-Test Review** *Review Probabilities *Review Univariate Data *Review Normal Distribution *Review Binomial Probabilities	**24** *Introduction to Sampling *Central Limit Theorem *sample mean and standard deviation	**25-Test 2** *Introduction to Hypothesis Testing *Define null and alternate hypothesis *Define reject and fail to reject	**26** *Practice calculating probabilities using samples *Plenty of problems μ and σ	**27** *Use sample proportions to model and solve problems *Watch Video on sampling with proportions over weekend	28
29-**Week 10** Day 46-47	**30** *Sample proportions *Problems, Problems μ and σ	**31** *Sample proportions *Problems, Problems μ and σ				

April 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
-Week 10 Day 48-49			**1** *Introduce Estimation *Estimating μ with large samples	**2** *Xbar sampling *Sample proportions *Problems, Problems μ and σ	**3-Quiz** Sampling Distributions *Cummulative Review Textbook Assignment	4
5-Easter **Spring Break**	**6** **Spring Break**	**7** **Spring Break**	**8** **Spring Break**	**9** **Spring Break**	**10** **Spring Break**	11 **Spring Break**
12**-Week 11** Day 50-54	**13** Cumulative Review Assignment	**14** *Estimating μ with large samples *Estimating μ with small samples *Estimating p in the binomial distribution *Choosing sample sizes	**15** *Estimating difference in means and proportions	**16-Quiz** estimating mean *Introduction to Hypothesis Testing *Define null and alternate hypothesis *Define reject and fail to reject	**17** *1-α and 1-β *Tests involving μ with Large Samples * P value	18
19-Week 12 Day 55-59	**20** *Hypothesis tests involving μ with Small Samples *Type I & Type II errors	**21-Quiz** *Quiz-Hypothesis testing involving the mean and interpreting P-values *Tests involving proportions	**22** *Tests involving paired differences(dependent) *Testing differences of two means or two proportions(Independent samples)	**23** *Continue Testing differences of two means or two proportions (Independent samples) *Really hit formulas *Test Review	**24-Test 3** *Hypothesis Testing	25
26**-Week 13** Day 60-63	**27** *Paired Data and scatter diagrams *Least-squares line *residuals Confidence bounds for prediction	**28** *Standard Error *Confidence intervals for y *Linear Correlation Coefficient *Coefficient of Determination	**29** *Testing for the slope of the least-squares regression line *test the slope and confidence intervals	**30-Quiz** *Quiz Intervals, scatterplots *Linear Transformations to achieve linearity *Testing for the slope of the least-squares regression line *test the slope and confidence intervals		

May 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
-Week 13 Day 64					**1-Test Review** *Cover all Linear regression topics *Extra Practice on Linear Regression(Test Prep)	2 Tutoring Session
3-**Week 14** Day 65-69	**4-Test 4** * Linear regression	**5** *Introduction to Chi-squared distributions *Test for independence *Relationship with normal curve	**6** *Goodness of fit *one-way tables *Homogeneity of proportions	**7** *Homogeneity of proportions *Two-way tables	**8-Test 5 Material** *Test for independence *Goodness of fit *one-way tables *Two-way tables *Homogeneity of proportions	9 Tutoring Session
10-Week 15 Day 70-71 Mother's Day	**11** **Review**	**12** **Review**	**13** **AP Exam**	**14**	**15**	16
17-**Week 16**	**18**	**19**	**20**	**21**	**22**	23
24-**Week 17**	**25**	**26**	**27**	**28**	**29**	30
31						

June 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Week 18	**1** **Exam Review** **Projects Due**	**2** **Exam Review**	**3** **Exam Review**	**4**	**5**	6
7	**8** **Final Exams**	**9** **Final Exams**	**10** **Final Exams**	**11** **Final Exams**	**12** **Required Workday**	13 **Graduation Day!!!**
14	**15** **Optional Workday**	**16**	**17**	**18**	**19**	20
21 Father's Day	**22**	**23**	**24**	**25**	**26**	27