Introduction to Statistics, Spring 2014
EDP 371- Unique number: 11050
Tentative Schedule of Topics

Date:	Topic	Reading	Homework
Tue 1/14	Syllabus, course requirements, course content, etc. *Introduction:* ▪ Vocabulary	Chapter 1	
Thu 1/16	*Intro* (cont'd) ▪ 4 scales of measurement ▪ Statistical notation	Chapter 1	Chapter 1 10, 12, 20, 22
Tue 1/21	*Frequency distributions of scores:* ▪ Tables ▪ Graphs ▪ Shape ▪ Percentiles	Chapter 2	Chapter 2 6, 10
Thu 1/23	*Measures of central tendency* ▪ Mean ▪ Median ▪ Mode ▪ Characteristics of Mean	Chapter 3	Chapter 3 4, 10, 22, 24
Tue 1/28	*Measures of variability:* ▪ Range ▪ IQ & SIQ Range ▪ Variance & standard deviation	Chapter 4	Chapter 4 2, 7, 8, 22
Thu 1/30	*Z-scores:* ▪ Raw scores$\Rightarrow$Z-scores ▪ Z-scores$\Rightarrow$Raw scores ▪ Transforming scales ▪ Normal distribution	Chapter 5 Chapter 6: p.163-184, p.189-on	Chapter 5 1, 6, 22 Chapter 6 6, 10, 18, 19
Tue 2/4	*Sampling distributions of sample means:* ▪ Shape ▪ Mean ▪ Variability	Chapter 7	Chapter 7 4, 8, 10, 16, 20, 22

Date:	Topic	Reading	Homework
Thu 2/6	*One-sample Hypothesis Testing* ▪ Assumptions ▪ The Four Steps and the "logic" of Hypothesis testing	Chapter 8	Chapter 8 4, 6, 15, 20, 21
Tue 2/11	*One-sample Hypothesis Testing* (cont'd) ▪ Type I error ▪ Type II error & ▪ Power	Chapter 8	
Thu 2/13	*One-sample Hypothesis Testing* (cont'd)		
Tue 2/18	Review		REVIEW
Thu 2/20	***EXAM 1***		
Tue 2/25	*The t-statistic*	Chapter 9	Chapter 9 2, 5, 6, 18, 22, 23
Thu 2/27	*Confidence intervals*	Chapter 9	Chapter 9 12c), 13b), 13c), 21c)
Tue 3/4	*Two-sample Hyp. Testing* ▪ Sampling dist'n of differences between sample means	Chapter 10	Chapter 10 3, 6, 10, 14a), 21), 22a)
Thu 3/6	*Related samples* Sampling dist'n of mean differences	Chapter 11	Chapter 11 1, 10a), 20, 22, 23
Tue 3/11	***Spring Break***		☺
Thu 3/13	***Spring Break***		☺
Tue 3/18	*Analysis of Variance* (ANOVA)	Chapter 12 p.385-415	Chapter 12 10, 12, 19, 21a), 21b)
Thu 3/20	*ANOVA* (cont'd)		

Date:	Topic	Reading	Homework
Tue 3/25	Review		REVIEW
Thu 3/27	***EXAM 2***		
Tue 4/1	*Multiple comparisons* ▪ Tukey's HSD	Chapter 12 p.416-on	
Thu 4/3	*Multiple comparisons* (cont'd) ▪ Scheffé's		Chapter 12 10 w/Scheffé, 21c), 23
Tue 4/8	*Correlation* ▪ Hypothesis testing	Chapter 15 p.509-535	Chapter 15 5, 9, 10, 12, 14
Thu 4/10	*Correlation* (cont'd)		
Tue 4/15	*Regression*	Chapter 16 p.557-569	Chapter 16 3, 4, 6, 8, 10a)
Thu 4/17	*Regression* (cont'd)		
Tue 4/22	*Chi-squared test of* ▪ Goodness of Fit	Chapter 17 p.591-603	Chapter 17 2, 4, 11
Thu 4/24	*χ^2 test of* ▪ Independence	Chapter 17 p.604-613, p.615-616, p.620-on	Chapter 17 14, 20, 25
Tue 4/29	Review		REVIEW
Thu 5/1	***EXAM 3***		

Summary:

Exams: 2/20, 3/27, 5/1. These dates and times are not negotiable and will not change.

Please note that these homework due dates will ***most likely change*** based on the class's response to the material covered (i.e., based on the class's pace). You are responsible for hearing about these changes **in class**.