

**BA 240 Statistical Analysis - Leslie Lum**  
**Fall 2012 AM Course Syllabus**

**Schedule**

**(Subject to adjustment – changes will be announced on mybcc.net class site – check the site often for announcements or extra credit opportunities)**

<b>Week</b>	<b>Topics</b>	<b>Homework due Tuesday</b>	<b>Homework due Thursday</b>	<b>Exams and Project</b>
<b>Sep 18</b>	Review syllabus and course requirements. Watch The Joy of Statistics <a href="http://www.gapminder.org/videos/the-joy-of-stats/">http://www.gapminder.org/videos/the-joy-of-stats/</a> MODULE 1 Read Describing data 1.1, 1.2, 1.3, 1.4, 1.5. and 1.6 Read 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8 TI instructions for standard deviation p. 63		Resume 1.12, 1.14, 1.18, 1.24 (Classify scale as well)  Solution manuals are available in the Business Study Center C207.  Text data files are on mybcc.net	
<b>Sep 24</b>	MODULE 1 <a href="http://eagereyes.org/about">http://eagereyes.org/about</a> Visualization of data.	2.57, 2.67, 2.83 Plot stem leaf and do mean, median, mode, variance and standard deviation. For 2.177 only use Excel to plot histogram, show mean, median and mode, up to plus and minus three standard deviation, identify outliers Worksheet A Summation	2.166, 2.175, and 2.176	<b>Sep. 28 RAT 1</b>  <b>First office visit completed by end of September.</b>
<b>Oct 1</b>	MODULE 2 Read Probability 3.1,3.4, 3.5, 3.6, 3.7 Read Discrete Probability Distributions 4.1, 4.2, 4.3, 4.4 Read Normal distributions 5.1, 5.2, 5.3, 5.4 TI Instructions for binomial p. 213	General Discrete 4.22, 4.36, 4.114, 4.116 For all problems, plot the entire distribution and show mean and plus and minus 3 std on graph. <b>Team Project Selection Oct 4</b>	Binomial 4.60, 4.61, 4.62, For 4.125 plot the entire distribution and show mean and plus and minus 3 std on curve on graph.  Worksheet B Binomial/General Discrete  4.115 Calculate 4.123 Table	<b>Oct 5 RAT 2</b>  <b>Team Project Selection Oct 4</b>
<b>Oct 8</b>	MODULE 2 Instructions for TI normal curve p. 253	Normal 5.38, 5.40, 5.42, 5.56, 5.60. For all problems, plot the distribution and show mean and plus and minus 3 std on curve on graph  Worksheet C Normal Worksheet D Regression		<b>EXAM 1 Module 1 and 2– Oct 11, 12</b> <b>(Exam will take two sessions)</b>
<b>Oct 15</b>	MODULE 3 Read Central Limit - 6.1, 6.2, 6.3 Confidence Interval - 7.1, 7.2, 7.3, 7.4, 7.5	Central Limit 6.34, 6.38, 6.58, 6.64	Large 7.16, 7.18, 7.22	<b>Second office visit completed this week</b>
<b>Oct 22</b>	MODULE 3  <b>Oct 23 Lab Location N252</b>	Small 7.36, 7.38, 7.39 (Use Excel to do 7.39) Prop. 7.50, 7.54, 7.56 Sample size 7.70, 7.72, 7.74, 7.78.	Worksheet E Sample Means	<b>Oct 25 RAT 3</b> <b>(No class Oct. 26)</b>

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<b>Oct 29</b>	MODULE 4 Read One population hypothesis testing - 8.1, 8.2, 8.3, 8.4, 8.5.	<b>Individual Project due Oct 30</b>	Large 8.32, 8.34, 8.46 Small 8.64, 8.68. For all problems, draw curve, show mean, areas of rejection, decision rule, calculation of test statistic, and conclusion including p-value.	<b>Nov 2 RAT 4</b> <b>Individual Project due Oct 30</b>
<b>Nov 5</b>	MODULE 4 and start Module 5 Read: Two populations 9.1, 9.2, 9.3, 9.4, 9.5	Prop 8.80, 8.84, 8.86 Worksheet F Single Population Hypothesis For all problems, draw curve, show mean, areas of rejection, decision rule, calculation of test statistic, and conclusion including p-value.		<b>INDIVIDUAL EXAM 2 Module 3 and 4 No 8, 9</b>
<b>Nov 13</b>	MODULE 5 More than two populations 10.1, 10.2		Large sample 9.14, 9.110 Pooled Variance 9.20, 9.28, 9.134 For all problems, draw curve, show mean, areas of rejection, decision rule, calculation of test statistic, and conclusion including p-value.	<b>Nov 16 RAT 5</b>
<b>Nov 19</b>	MODULE 5 and 6 Read Multiple Regression and Chi Square 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8 12.1, 12.2, 12.3, 12.4 <b>Lab Nov 20 Lab N252 Do Class eval at <a href="http://bellevuecollege.edu/classeval">bellevuecollege.edu/classeval</a></b>	Prop 9.58, 9.62, 9.66 For all problems, draw curve, show mean, areas of rejection, decision rule, calculation of test statistic, and conclusion including p-value.	Paired 9.41, 9.42, 9.46, ANOVA <u>More than two populations</u> 10.32, 10.34 For all problems, draw curve, show mean, areas of rejection, decision rule, calculation of test statistic, and conclusion including p-value.	
<b>Nov 26</b>	MODULE 5 and 6	Regression 11.102, 11.111, 11.113 May be completed on Excel. Chi Square: 13.24, 13.26, 13.28 For chi square problems, state the decision rule, show calculation of test statistic, and conclusion including p-value.	Worksheet G Two population hypothesis Worksheet H Final Regression review sheet	<b>Draft Team Project due Nov 30 (Peer eval done)</b>
<b>Dec 3</b>		<b>Dec. 4 Final Team Project due</b> Final Exam Review		<b>Dec. 4 Final Team Project due</b> <b>Dec. 6 at 9:30 am</b> <b><u>Comprehensive Final</u></b>

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**Course Requirements**

	Weight	Your score in points
<b>2 exams (20% each) and one comprehensive final (25%)</b> Individual exams are two pages of notes (4 sides 8 ½ X 11) which may NOT include the practice exams which must be turned in with the exam. You may use a calculator. Laptops and cell phones are prohibited.	650	
<b>Individual (10%) and Team Project (5%)</b> Detailed instructions and project template on mybcc.net course site. <b>(Instructor reserves the right to adjust points based on contribution.)</b> <b>Complete instructions on the Project are on mybcc.net in the Project file.</b> <b>Videos on how to use Excel to complete the team project are available at:</b> Website: <a href="http://ba240.groups.live.com">http://ba240.groups.live.com</a> Login: <a href="mailto:ba240student@live.com">ba240student@live.com</a> Password: <b>Fall2012</b> No spaces "F" is capitalized. Once you signed in, click on documents.	150	
Individual Readiness Assurance Tests. Individual (5%).	50	
Individual Readiness Assurance Tests. Team (5%)	50	
Class activities including in-class worksheets, participation and attendance. Also included in personal office visits to instructor. (5%)	50	
Homework and worksheets. Homework must be turned in at the beginning of class on the date due. You must be in class to get credit for the homework. (5%)	50	
<b>TOTAL</b>	<b>1000</b>	

**Math 138 is required for this course. BA 240 transfers as STATS 311 at UW and is a rigorous 300 level course that requires your full participation in class and on your own time.**

**Time and place**      **Morning Section: Time: T TH 9:30 to 11:20 F 10:30 to 11:20 am Room C208**

**Contact**              Telephone: 425-564-4063  
 Email: [llum@bellevuecollege.edu](mailto:llum@bellevuecollege.edu)  
**BE SURE TO PUT BA 240 IN SUBJECT HEADING OF EMAIL FOR MORE TIMELY RESPONSE.**  
 Office mail: D110  
 I am frequently in my office so please drop by to see me.

**Office hours**        **Office Location C207**  
**Lum Office Hours: MTWTh11:30 to 12: 20 pm or by appointment.**

**Lecture Videos**    Video lecture Links provided on last page of syllabus

Project Excel Demos video lectures at:  
 Website: <http://ba240.groups.live.com>  
 Login: [ba240student@live.com](mailto:ba240student@live.com)  
 Password: **Fall2012**  
 No spaces "F" is capitalized.  
Once you signed in, click on documents.  
**Business Transfer Website: <http://bellevuecollege.edu/business/transfer/default.htm>**

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**Required Texts**

Statistics by McClave and Sincich, Pearson/Prentice Hall 2006 (This book may be rented from the bookstore)

The **textbook data files** are posted in a zip file in the MyBCC.net course website. All problem files are under Exercises. To use, open Excel first and then in the drop down menu right above the Cancel button, go to the top for All Files (\*.\*). Browse to find the text data files and open it. You may have to format the file into columns before using it.

**Other Requirements**

Scantrons for quizzes.

Calculator that can calculate standard deviations. For instructions on TI-83 statistical functions:

<http://www.angelfire.com/pro/fkizer/Instructions/tiusrmanstat83.htm>

**Resources**

The solution manual is available at the Business Study Center in C207K. The best students **make extensive use of the study center**. Check C207K for hours.

**Review sessions** may be scheduled prior to exams. These are often conducted by instructors in other sections. Attend the review sessions to help you do better in the exams.

**How to succeed in this course**

- This course requires that you participate in class. You will be called upon to answer questions and complete problems on the board.
- This course requires that you work in teams for a project. Teams will be selected by the instructor and you will be expected to behave according to professional workplace standards in dealing with your team members. This includes in-class, out-of-class, and in email communication.
- Review all materials for a module answering the questions on your reading guide BEFORE we cover the module. You will be tested on your reading on the individual and team RAT.
- We will spend two to three sessions on each module applying the concepts that you have learned.
- Your grade will be based on your individual Readiness Assurance Test, your team RAT, team problem solving and casework, team project, 3 individual exams.
- The Team Project requires that you apply what you learn to real problems or issues. This requires that you apply research, analysis and evaluation skills that will be required in your professions.

You must take **personal responsibility** for your learning to succeed in life:

- Attend all classes and participate fully in the team process
- Use the reading guide to read textbook sections, view video lectures and do homework before and during Module work WITHOUT the solution guide.
- Help your team members learn. You learn the most when you teach others the concepts.
- Do all supplemental problems at the end of the chapter in review for the test
- Do practice exams without consulting key
- Go to the Business Study regularly to study with tutors

**Grading**

95 - 100%	A	4
90 - 94	A-	3.7
86 - 89	B+	3.3
83 - 85	B	3.0
80 - 82	B-	2.7
76 - 79	C+	2.3
73 - 75	C	2.0
70 - 72	C-	1.7
66 - 69	D+	1.3
60 - 65	D	1.0
Below 60	F	0

**A pass grade will not be given unless all requirements of the course are completed.**

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<b>Standard of Behavior</b>	All interactions will be evaluated as to whether they are acceptable in the business environment. This includes interactions in the class, on online discussion forums, email communications, with the instructor, with fellow students, and in the community. Inappropriate communications include jokes and discussions your classmates find offensive, excessive messages, and other communications which would be typically deemed inappropriate in the workplace. The student will be informed and expected to comply with requests for change and improvement. <u>Cell phone and laptops are not to be used in the class.</u>
<b>Student Code</b>	<p>Cheating includes, but is not limited to, copying answers on exams, glancing at nearby exams, turning in assignments or papers that have been used in other classes, and giving or receiving help during an exam. Cheating includes, but is not limited to, purchasing or selling notes, assignments or examination materials. Having a cell phone in view for any reason during an exam will result in a zero in the exam.</p> <p>Stealing includes, but is not limited to, taking the text, notes, exams, library books or other personal property of others without their permission.</p> <p>Plagiarism is presenting the words, ideas, and/or work of others as if it is an individual's own work. It includes, but is not limited to, using other's papers as one's own and including parts of published works without giving credit where credit is due.</p> <p>If you choose to cheat, steal or plagiarize, or if you assist anyone in cheating, the following actions will be taken: You will receive zero on the assignment or assessment. A report of the incident will be forwarded to the Dean of Student Services. He/she may file the report in your permanent record and/or take further disciplinary action. If you feel you have been unfairly accused of any of the above, you may appeal. For a description of due process, see WAC 132H-120, available in the Dean's office.</p> <p>"Cheating, stealing and plagiarizing (using the ideas or words of another as one's own without crediting the source) and inappropriate/disruptive classroom behavior are violations of the Student Code of Conduct at Bellevue College. Examples of unacceptable behavior include, but are not limited to: talking out of turn, arriving late or leaving early without a valid reason, allowing cell phones/pagers to ring, and inappropriate behavior toward the instructor or classmates. The instructor can refer any violation of the Student Code of Conduct to the Vice President of Student Services for possible probation or suspension from Bellevue College. Specific student rights, responsibilities and appeal procedures are listed in the Student Code of Conduct, available in the office of the Vice President of Student Services." The Student Code, Policy 2050, in its entirety is located at: <a href="http://bellevuecollege.edu/policies/2/2050">http://bellevuecollege.edu/policies/2/2050</a> <u>Student Code.asp</u></p>
<b>Affirmation of Inclusion</b>	Bellevue Community College is committed to maintaining an environment in which every member of the campus community feels welcome to participate in the life of the college, free from harassment and discrimination. We value our different backgrounds at BC, and students, faculty, staff members, and administrators are to treat one another with dignity and respect.
<b>Code of Honor</b>	By being a student in this course you acknowledge that you are a part of a learning community at Bellevue College that is committed to the highest academic standards. As a part of this community, you pledge to uphold the fundamental standards of honesty, respect, and integrity, and accept the responsibility to encourage others to adhere to these standards.
<b>Accommodations</b>	<p>The Disability Resource Center serves students with a wide array of learning challenges and disabilities. If you are a student who has a disability or learning challenge for which you have documentation or have seen someone for treatment and if you feel you may need accommodations in order to be successful in college, please contact DRC as soon as possible.</p> <p>If you are a person who requires assistance in case of an emergency situation, such as a fire,</p>

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earthquake, etc, please meet with your individual instructors to develop a safety plan within the first week of the quarter.

The DRC office is located in B 132 or you can call at 425.564.2498. Deaf students can reach us by video phone at 425-440-2025 or by TTY at 425-564-4110. Application information and other helpful links at [www.bellevuecollege.edu/drc](http://www.bellevuecollege.edu/drc)

**Public Safety**

The Bellevue College (BC) Public Safety provides personal safety, security, crime prevention, preliminary investigations, and other services to the campus community, 24 hours per day, 7 days per week. Their phone number is 425.564.2400. Public Safety is located in K100 and on the web at: <http://bellevuecollege.edu/publicsafety/> for campus emergency preparedness information, campus closure announcements and critical information in the event of an emergency.

**Participating in Business  
Learning Community**

If you intend to and have not already done so, declare your business major. Make sure you have consulted with an advisor and laid out your courses. The Business Transfer Program recommends that you subscribe to the Business listserv which provides notices of application deadlines and events. To subscribe to the listserv, individuals should send a message to: [lyris@list.bellevuecollege.edu](mailto:lyris@list.bellevuecollege.edu). In the body of your message write SUBSCRIBE bccbusiness

Social Science policies can be viewed at <https://bellevuecollege.edu/socsci/policies.asp>

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<b>Module</b>	<b>Knowledge DESCRIBE what the following are:</b>	<b>Comprehension IDENTIFY</b>	<b>Application USE</b>	<b>ANALYZE (hand, TI- 83 and Excel)</b>	<b>CREATE (using Excel) TEAM PROJECT</b>	<b>EVALUATE</b>
<b>MODULE 1 Communicating Data Read 1.1, 1.2, 1.3, 1.4, 1.5, and 1.6 Read 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8</b>	descriptive and inferential statistics sample, random qualitative and quantitative data continuous and discrete nominal, ordinal, interval and ratio data histogram, pie chart, scatter plot, simple linear regression, box plot and stem leaf mean, median, mode minimum, maximum, range, standard deviation (sum of squares) Percentile, z-score, outliers Skewness, kurtosis Summation	Classify data by qualitative, quantitative, continuous, discrete, nominal, ordinal, interval and ratio  Identify mean, median and mode in a data set  Identify minimum, maximum, range  Describe what a histogram, pie chart, scatter plot, box plot and stem leaf shows.  Describe what a linear regression is.	Calculate mean, median, mode, variance, min, max, range, standard deviation, percentile, or z-score for a data set of up to 25.  Create a histogram, pie chart, scatter plot, or stem leaf with proper labeling from a data set of up to 25.  Hand calculate simple linear regression including correlation and R square for a data set of up to 12.	Interpret mean, median, mode, variance, standard deviation, percentile, z-score relative to each other and what they mean for the population.	Select a set of more than 50 data.  Generate descriptive statistics on Excel and interpret what it says about the data set.  Organize visual display to effectively communicate what the data shows.	Compare and analyze various kinds of visual display of data.  Compare and contrast measures of central tendency and variation and their implications to the data.  Predict from visual display.  Identify the limitations of data.
<b>MODULE 2 Describing populations Read 4.1, 4.2, 4.3, 4.4 Read 5.1, 5.2, 5.3, 5.4</b>	General discrete probability distributions. (Expected value or mean, standard deviation)  Binomial probability	Describe general discrete probability distribution. Give the formula for the mean/expected value and the standard deviation.	Create a general discrete table from data, plot the graph, calculate the mean and standard deviation.	Place mean and standard deviation on general discrete probability plot.  Calculate binomial. Apply the empirical	Create probability distributions. Construct normality plot. Calculate probability for various z-scores.	Compare discrete distributions. Evaluate normality.

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	distribution (mean and standard deviation).	List the three conditions of a binomial distribution.	Create a binomial table from data, plot the graph, calculate the mean and standard deviation.	rule.		
	Trees (Bayesian).	Give the formula for binomial, mean, and standard deviation.				
	Normal probability distribution.		Identify normal probability distributions and do tests for normality.			
	Standard normal curve.	Explain the empirical rule and how it relates to normal distributions.	Calculate x and z and find probabilities using the z-table.			
<b>MODULE 3</b> <b>Estimation</b> <b>Read 6.1, 6.2, 6.3</b> <b>7.1, 7.2, 7.3, 7.4, 7.5</b>	Define central limit theorem, standard error, and sampling error. Define confidence level, alpha, and confidence intervals. Define margin of error. Explain what a t distribution is and when you use it.	Describe the central limit theorem and the relationship between the population and the sample means curve. Define standard error. Define confidence interval. Define sampling error.	Identify which should be used in large sample, small sample and large sample proportion. Apply t distribution and probability. Identify the margin of error. Describe the effect that sample size has on accuracy.	Calculate probability for the sample means curve. Calculate confidence intervals. Differentiate between t and z distributions. Calculate the sample size necessary for a margin of error.	Interpret confidence intervals. Evaluate whether two populations are the same.	Evaluate and interpret polls. Identify the limitations of polls. Evaluate the predictive quality of polls.
<b>MODULE 4 and 5</b> <b>Hypothesis testing</b> <b>Read 8.1, 8.2, 8.3, 8.4, 8.5.</b> <b>9.1, 9.2, 9.3,</b>	Null hypothesis. Alternate hypothesis. Alpha. One-tail Two-tail One population Two population	Define null. Define alternate. Type 1 and type 2 error. Setting alpha. Decision rule. Critical z or t.	Classify problem as large, small, proportion, pooled variance and unequal variance. Identify critical z or t.	Calculate test statistic. Find p-value.	Interpret test statistic. Evaluate p-value.	Analyze the cost of type 1 and type 2 error. Evaluate and improve on actual studies.



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<b>9.4, 9.5</b>  <b>Analysis of Variance</b> <b>More than two populations</b> <b>Read 10.1, 10.2,</b> <b>MODULE 6</b> <b>Multiple Regression</b> <b>Read 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8 12.1, 12.2, 12.3, 12.4</b>	Critical t or z p-value Null hypothesis Alternate hypothesis Test statistic (F statistic)	Define null. Define alternate. F-statistic.	Classify as one or two factor ANOVA. Checking ANOVA assumptions.	Calculate F-statistic. Find p-value.	Interpret test statistic. Evaluate findings.	Evaluate use of ANOVA and follow-on tests.
	Dependent variable. Independent variable. Intercept Slope Residual Correlation R square Prediction Prediction interval Confidence interval Assumptions (mean equal 0, variance equal, variance constant, normal) Outlier removal	Identify, define and discuss intercept, slope, residual, correlation, r-square.	Identify if regression is appropriate for the data. Describe the relationship between x and y.	Calculate intercept, slope, correlation, Rsquare, prediction, prediction interval, confidence interval.	Interpret results.	Evaluate if data transformation is necessary. Provide predictions from the analysis.
<b>Chi-square</b> <b>Read 13.2, 13.3, 13.4</b>	Contingency table Null hypothesis Alternate hypothesis Test statistic Observed frequency Expected frequency	Identify null and alternate		Calculate expected frequency. Calculate chi-square.	Interpret results.	Evaluate the usefulness of test.

<b>LINKS TO RESOURCES</b>	<b>Power Point</b>	<b>Sample Excel</b>	<b>VIDEO LECTURES</b>	<b>VIDEO PROBLEMS AND EXCEL DEMOS</b>
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		Spreadsheets		
<b>Module 1 - Chapter 1, 2</b>	<a href="#">Module 1</a>	<a href="#">Car file data for Excel 1</a> <a href="#">Car file Demo Histogram</a> <a href="#">Histogram/Normality</a>	<a href="#">Module 1 Part 2</a> Communicating Data <a href="#">Module 1 Part 3</a> Graphs <a href="#">Module 1 Part 4</a> Central Tendency/Variability <a href="#">Module 1 Part 5</a> Linear Regression	<a href="#">Mean Median Mode Stem Leaf Problem 2.37</a> <a href="#">Excel Histogram</a> <a href="#">Excel Central Tendency and Variability</a> <a href="#">Excel Simple Linear Regression</a>
<b>Module 2 - Chapter 3, 4, 5</b>	<a href="#">Module 2</a>	<a href="#">z and t table</a> <a href="#">Noncumulative Binomial Table</a>	<a href="#">Module 2 Part 1</a> Probability <a href="#">Module 2 Part 2</a> General Discrete <a href="#">Module 2 Part 3</a> Binomial <a href="#">Module 2 part 4</a> Normal	<a href="#">General Discrete Problem 4.11</a> <a href="#">Mean and Standard Deviation Binomial Problem 4.115</a> <a href="#">Normal Distribution 5.37</a> <a href="#">Excel Normality Plot</a>
<b>Module 3 - Chapter 6, 7</b>	<a href="#">Module 3</a>	<a href="#">7.22</a> <a href="#">7.40</a>	<a href="#">Module 3 Part 1</a> Central Limit Theorem <a href="#">Module 3 Part 2</a> Confidence Interval	<a href="#">Large Sample Means Confidence Interval Problem 7.22</a> <a href="#">Small sample means Confidence Interval Problem 7.40</a> <a href="#">Large sample proportion Confidence Interval Problem 7.48</a> <a href="#">Excel Random Sampling</a> <a href="#">Excel Confidence Interval</a>
<b>Module 4 - Chapter 8</b> <b>Module 5 - Chapter 9, 10</b>	<a href="#">Module 4</a> <a href="#">Module 5</a>	<a href="#">9.122</a>	<a href="#">Module 4 Part 1</a> One sample hypothesis testing <a href="#">Module 5 Part 2</a> Two sample hypothesis testing <a href="#">Module 5 Part 3</a> ANOVA	<a href="#">One pop. large sample Problem 8.34</a> <a href="#">One pop. small sample Problem 8.61</a> <a href="#">One pop. proportion Problem 8.79</a> <a href="#">Two pop. pooled variance Problem 9.19</a> <a href="#">Two pop. proportion Problem 9.61</a> <a href="#">Two pop. paired Problem 9.122</a> <a href="#">ANOVA Problem 10.33</a>
<b>Module 6- Chapter 11, 12, 13</b>	<a href="#">Module 6</a>	<a href="#">Prediction Interval</a> <a href="#">Chi Square</a>	<a href="#">Module 5 Part 1</a> Multiple Regression <a href="#">Module 5 Part 2</a> Simple Chi Square <a href="#">Module 5 Part 3</a> Chi Square	Excel demos provided on Winnie Li site. Check syllabus for URL and password.