Instructor: Brian Chezum  
Office: Hepburn 203 (Phone: X5426)  
Email: chezum@stlawu.edu  
Office Hours: 1:30 – 2:30 MW  
Class Schedule: 8:50 – 10:20 & 10:30 – 12:00 MWF


Course Outline: We will first review some material you have seen in Stat 113 as presented in the appendices of the text and then cover a substantial portion of the text. We will generally follow the text with outside readings introduced at various times throughout the semester. In particular we will want to consider visual representations of data and statistics more thoroughly than the text.

Review:
- Appendix B: Characteristics of Probability Distributions  
- Appendix C: Some Important Probability Distributions  
- Appendix D: Statistical Inference: Estimation and Hypothesis Testing

Because this is material that was covered in STAT 113, I will not explicitly lecture over all of the material in these appendices, but you are responsible for all of the material. If there are concepts you would like additional review for, I encourage you to come by my office for assistance and/or consult with the Quantitative Resource Center.

Supplemental Reading: “Roses or Lemons: Adverse Selection in the Market for Thoroughbred Yearling,” See on Sakai

Chapter 1: The Nature and Scope of Econometrics  
Chapter 2: Basic Ideas of Linear Regression: The Two Variable Model  
Chapter 3: The Two-Variable Model Hypothesis Testing

EXAM 1 ABOUT HERE

Chapter 4: Multiple Regression Estimation and Hypothesis Testing  
Chapter 5: Functional Forms of Regression Models  
Chapter 6: Dummy Variable Regression Models  
Chapter 7: Model Selection: Criteria and Tests  
Chapter 8: Multicollinearity  
Additional Material as time permits.

**You will be expected to use Microsoft Excel for assignments in this course. At times we will work with excel in class. I will try to give advance warning so that you may bring a computer to class if you wish to more easily follow the steps that I am taking. The Quantitative Resource Center does provide tutorials and workshops for excel additionally You Tube has a number of very well done video’s showing how to complete a larger number of tasks on excel. You should familiarize yourself with these resources.**
**Exams:** There will be two exams Each given a weight of 150 points in the final grade. Permission to miss an exam must be secured from the instructor in advance. Unexcused absences will result in a grade of zero for the exam. The format of any make-up exam is at the discretion of the instructor, and will only be given if PRIOR permission to miss an exam is given. You will have 2 hours to complete the exam. Exams will be given on the following dates and times:

Exam 1: Wednesday, March 9 @ 6:00 – 8:00 pm  
Exam 2: Friday, May 13 @ 9:00 – 11:00am for the 8:50 section.  
Thursday, May 12 @ 1:30 – 3:30pm for the 10:30 section

During exams, you may only use a simple 4 function calculator. Please do not bring any other more complex calculator or you cell phone to the exams, you will not be allowed to use these. Most critically, you may not use a calculator that has the ability to store information in any form of memory. If I see a cell phone at any time during a quiz or exam I will immediately assume you are cheating, confiscate your phone and turn the case over to academic honor council (See section on Academic Dishonesty below).

**Homework:** Throughout the semester, you will be given homework problems. The homework will be given a weight of 50 points on the final exam. Homework will be graded as follows: 2 points if correct, 1 point of incorrect but effort was apparent or partially correct, 0 for no effort, entirely incorrect. Your homework grade will be calculated as the percentage of possible points earned multiplied by 50. In calculating this total I will employ excels’ roundup function.

**Quizzes:** Each Wednesday you will be given a short quiz at the beginning of class. The quizzes will be over the readings and lectures and are intended to encourage you to keep up with the material. Quizzes will be given a weight of 75 points in the final grade, the grade will be calculated as the percentage of possible points earned multiplied by 75. In calculating this total I will employ excels’ roundup function.

**Paper:** You will be asked to write a short paper that employees appropriate data to address some interesting economic question with the statistical tools that you have developed during this course. You will be expected to:

1. Find an interesting economic question which **must be approved by the instructor**.
2. Collect the appropriate data to address the question.
3. Explicitly apply appropriate statistical methods to address the question.
4. Write a 5-7 page paper, double spaced with 1 inch margins, that briefly describes your question and the source of your data, and in more detail addresses your empirical findings. You should expect to demonstrate a competent application of the methods we have studied in this course.

The paper will be given a weight of 75 points in your final grade.

**Attendance:** Attendance is not required, but is expected and strongly recommended.

**Academic Dishonesty:** Cheating will not be tolerated, anyone caught cheating will be punished to the full extent outlined in the student handbook. If you are found guilty of academic, I will recommend a minimum punishment of a 0 grade in the course. If you are deemed guilty of plagiarism by purchasing your paper or copying a paper available on-line I will recommend that you be expelled from the university.
Grading: The final grade will be given based on a total of 500 available points discussed above. Dividing your point total for the semester by 500 will convert your total to a 100 point scale. In calculating this total I will employ excels’ roundup function. The following grading scale will be used as a basis for final grades. I can assure you that the grading scale will be no stricter than this.

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<tr>
<th>Grade</th>
<th>Percent</th>
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<tbody>
<tr>
<td>4.0</td>
<td>95-100</td>
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<tr>
<td>3.75</td>
<td>91-94</td>
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<td>3.5</td>
<td>88-90</td>
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<td>3.25</td>
<td>85-87</td>
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<td>3.0</td>
<td>82-84</td>
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<td>2.75</td>
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<td>2.5</td>
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<td>61-63</td>
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<td>1.0</td>
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At the end of the semester, I may choose to make modifications to this scale, but please be assured that the scale will be no stricter than what you see here. Critically, this scale reflects the fact that I believe a student should be able to score at least 50% of the possible points to pass this class. This threshold will not be changed, if you are consistently scoring below 50% on assignments, you should withdraw from the course to avoid receiving a failing grade. The last day to withdraw from a course is Friday, April 8th.

Some important things to note:

1. The homework is worth 10% in your final grade. If you choose not to turn in the homework assignments, you can do no better than earn a 3.5 in the course. This of course assumes you earn perfect scores on all the other assignments.

2. The quizzes are worth 15% of your final grade. If you consistently miss the quizzes, you can do no better than earn a 3.25 in the course. Similarly for the paper. This of course assumes you earn perfect scores on all the other assignments.

3. Each exam is worth 30% of your final grade, failing an exam has the obvious effect on your grade.