



<http://webdata.colorado.edu/labs/softwaresearch/>

If you choose to purchase your own copy of STATA, it will allow you to work on assignments

**Final Exam (25%):** The final exam is **Sunday, December 15th from 4:30-6:30pm**. This exam cannot be skipped or taken at another time so plan accordingly.

**Data Project and Presentation (20%):** Students may work alone or with **one** other student on a data analysis project applying what you've learned in the course. Assignments are due at 10:00pm unless otherwise noted. Your written project is due by **10:00pm on Monday, December 16th**. You should start thinking about your topic as soon as possible at the beginning of the semester. Your project should pose a testable economic question that can be answered using one of the techniques we discuss in applied econometrics and using individual level data. A sample outline of what to include in your project: Introduce your research question and why it is an important topic to study, citing any relevant sources. Describe the data and empirical technique(s) you use. Conduct one or more types of empirical analysis on your data using techniques from the course. Discuss and interpret your empirical findings. (Roughly 8-10 pages, double-spaced, including figures and tables.) All tables or figures included should be **nicely formatted and concise, i.e. not just copy/pasted from the STATA output**.

Your research question must be something that can be answered using the individual level data that is available in either the US Census Bureau's American Community Survey or the Current Population Survey. We will spend time in class on what is available and how to extract and

penalties are **non-negotiable**. Those arriving late, leaving before class is dismissed, spending

can be found at the [OIEC website](#).

Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources.

**Classroom Behavior:** Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran's status, sexual orientation, gender, gender identity and gender expression, age, disability, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the [policies on classroom behavior](#) and the [Student Code of Conduct](#).

Since the course is in the computer lab, I realize that there can be the temptation to work on other things during lecture, browse the internet, etc. However, as a courtesy to me and your classmates, as well as to ensure you understand the presented material, I ask that during lectures (non-lab activities) you only use the computers to follow along with the slides and not for any other purpose.

## Tentative Class Schedule

| Week    | Content   | Assignments   |
|---------|---|---|
| Week 1  | <b>August 26-30</b><br>Course Information, types of data<br>Statistics and Sampling, ACS/CPS Introduction |   |
| Week 2  | <b>September 3-6</b><br>Introduction to STATA, Creating Variables   |   |
| Week 3  | <b>September 9-13</b><br>Creating Variables<br>Exploring Continuous & Categorical Data                    | Homework 1 Due 9/12                                   |
| Week 4  | <b>September 16-20</b><br>Bivariate Regression, Distribution of $\hat{\beta}$                             |   |
| Week 5  | <b>September 23-27</b><br>Hypothesis Testing<br>Goodness of Fit Measures                                  | Homework 2 Due 9/24                                   |
| Week 6  | Tues., Oct 1: Multivariate Regression, Project Overview<br>Thurs., October 3: <b>Exam 1</b>               | Homework 3 Due 10/1                                   |
| Week 7  | <b>October 7-11</b><br>Non-linear Models<br>Interpreting Coefficients in Non-Linear Models                | Research Q due 10/8 in class                          |
| Week 8  | <b>October 14-18</b><br>Categorical Variables in Regressions, Interaction Models                          | Homework 4 Due 10/15                                  |
| Week 9  | <b>October 21-25</b><br>Limited Dependent Variables   | Homework 5 Due 10/22;<br>Proposal Due 10/25           |
| Week 10 | <b>Oct 28 - Nov 1</b><br>Tues., Oct 29: ACS/CPS Tutorial<br>Thurs., Oct 31: <b>Exam 2</b>                 | Homework 6 Due 10/29                                  |
| Week 11 | <b>November 4-8</b><br>Omitted Variable Bias  | Data Set Due 11/5                                     |
| Week 12 | <b>November 11-15</b><br>Heteroskedasticity, Multicollinearity  | Homework 7 Due 11/12<br>Prelim. Analysis Due 11/17    |
| Week 13 | <b>November 18-22</b><br>Individual Meetings, Schedule TBD  | Homework 8 Due 11/19                                  |
| Week 14 | <b>November 25-29; Fall Break: No Class</b>   |   |
| Week 15 | <b>December 3-6</b><br>Panel Data, Fixed Effects  | Homework 9 Due 12/5                                   |
| Week 16 | <b>December 9-12</b><br>Project Presentations, Schedule TBD   | Presentation Due 12/10<br>at noon;<br>Paper due 12/16 |
| Week 17 | <b>Final Exam</b> Sunday, December 15th 4:30-6:30pm   |   |