

**San Diego State University**  
**Econ 641L: Econometrics Lab II**  
**Spring 2016**

**Lecturer:** Belen Chavez

**Classroom:** PSFA 136

**Class Time:** W, 2:00 pm – 3:40 pm

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**Office Hours:** by appointment

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***Course Description***

This course is designed to help students expand on their Stata skills in addition to learning how to use R and, if time permits, SAS. Skills obtained from this course will be transferable to further studies, research, internships, and/or future jobs as students build on their analytical toolkits.

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***Software Required***

- Stata 14.0 SE/MP (Stata 12 is the recommended minimum)
- R 3.2.3: <https://cran.rstudio.com>
- RStudio: <https://www.rstudio.com/products/rstudio/download/>

***Other Requirements***

- BitBucket account: <https://bitbucket.org/account/signup/>

***Optional***

- SAS University Edition: [http://www.sas.com/en\\_us/software/university-edition](http://www.sas.com/en_us/software/university-edition)

***Grading***

Weekly assignments will be assigned in class and will be due the Sunday following class. There will be one midterm project using Stata due on March 13, 2016 and a final project using either Stata or R due in May.

Please turn in your own work. Although you are encouraged to collaborate to solve problems, you may not submit a copy of your classmate's work. No plagiarism or cheating will be tolerated.

***Overview of Topics***

- I. Git, Data Management, Best Practices
- II. Time Series & Panel Data Analysis
- III. Instrumental Variables
- IV. Probit & Logit Models
- V. Additional Topics (i.e., GIS, Putexcel)
- VI. Introduction to R
- VII. Data Manipulation in R
- VIII. Graphics in R
- IX. Introduction to SAS (if time permits)