

San José State University
College of Social Science / Economics Department

Econ 103B Econometric Methods Spring 2023

Course and Contact Information

Instructor	Dr. Paul Lombardi
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Office Hours	Monday and Wednesday 4:00-5:00 pm or by appointment
Class Days/Time	Monday and Wednesday 10:30-11:45 am
Classroom	DMH 348
Prerequisites	Econ 103A

Class Resources

Course materials such as syllabus, handouts, assignment instructions, etc. can be found on the Canvas Learning Management System course login website: <http://sjsu.instructure.com>

Course Description

A continuation of the econometric techniques and research methods introduced in 103A. Econometric techniques for panel data, instrumental variables, regression discontinuity, difference-in-difference designs, and an introduction to time series topics. Students will write a term paper building on research projects they completed in 103A. Prerequisite: ECON 103A.

Course and Program Learning Outcomes (CLOs and PLOs)

This course emphasizes PLOs research methods and PLOs communication. Specific CLOs for this course include: **CLO 1.) Explain intermediate methods in econometrics and identify correct procedures:** 1a.) critically evaluate econometric models and point out potential sources of bias, 1b.) explain how panel data and difference-in-difference designs can be used to overcome omitted variables bias, 1c.) explain how instrumental variables designs can be used to overcome omitted variables and simultaneity bias, 1d.) describe the requirements for a compelling regression discontinuity design, and 1e.) compare and contrast time series techniques for prediction with econometric techniques for causal inference. **CLO 2.) Prepare a scholarly research paper describing a regression analysis:** 2a.) Formulate an interesting and important research question, 2b.) Locate useable data from the internet or other sources 2c.) Search and analyze scholarly literature

