

ECN 3972
Research Project

Data requirements:

- Can be cross section or time series
- Minimum observations = 35 (more if possible)
- Dependent variable
- 3+ Independent variables

This will be written in professional form without obvious grammatical errors or misspellings. All equations should have the appropriate subscripts. (You can figure this out in Word – it is actually pretty easy). You will also attach a pdf of all of your R code for the project in a separate document or an appendix.

The paper can be used for the Electronic Writing Portfolio.

You should have your topic decided by 11/2 and all of your data by 11/16.

Outline of paper:

1. Introduction – Research question and why it is important

2. Description of Data

- Variables used and how they are measured
- Sources
- Descriptive statistics (mean, standard deviation, minimum, maximum)
- Discuss your data!!

Variable Name	Mean	Standard Deviation	Minimum	Maximum
Dependent				
Independent #1				
Independent #2				
Independent #K				

Note: Do NOT ever include a table (or a figure) in a paper without referring to it in the text and discussing anything interesting found.

3. Theoretical model

- List equation using your variables with β s for coefficients (with subscripts). Don't forget the error term. This is the theoretical model, not the one that includes your results.

4. Hypotheses

- Discuss hypothesized signs for the coefficients (with an explanation of why).
- If there is uncertainty explain why.

5. Results from regression

Variable	Coefficient (standard error)
Constant	
Independent #1	
Independent #2	
Independent #K	
N	
Adjusted R ²	

6. Econometrics tests

- Overall significance of the regression (F-test)
- Coefficient significance (t-tests)
- Multicollinearity? (look at correlation coefficients)
- Autocorrelation? (only if time series, look at Durbin-Watson)
- Heteroskedasticity? (use White test)

7. Conclusion & future research

- What would you do differently if you had time or additional data?