

ECON 233 Educational Goals

2 Analyze and Interpret economic data

2A Interpret key economic data

Introductory:

- Identify primary sources of economic data

2B Interpret statistical evidence and methodology

Introductory:

- Calculate common statistics by hand from a small data set
- Calculate the expected value of a discrete random variable from its PDF
- Construct and interpret a t-test
- Distinguish between parameters and statistics/estimators
- Distinguish between population and sample
- Interpret other important univariate statistics (variance, standard deviation)
- Interpret confidence interval and sets
- Interpret crosstabs and pivot tables
- Interpret measures of central tendency (mean, median, mode)
- Interpret the results of a hypothesis test
- Perform basic probability calculations
- Calculate and interpret conditional expectations
- Calculate variances and covariances of random variables

2C Conduct statistical and/or quantitative analysis using a computer

Introductory:

- Manage data and code
- Use a spreadsheet (e.g., Excel) to enter, view and calculate data
- Use a spreadsheet to calculate univariate summary statistics
- Use a spreadsheet to construct crosstabs and pivot tables

4 Use oral, written, and graphical methods to communicate economic insights

4B Present economic arguments by means of graphs, charts and tables

Introductory:

- Construct and interpret a pie chart
- Construct and interpret a time series plot

- Construct and interpret a crosstab or pivot table
- Construct and interpret a scatter plot
- Construct and interpret a table of summary statistics
- Construct and interpret a univariate histogram or density plot

4D Use multiple methods in combination to communicate economic insights

Introductory:

- Write a report that uses data to address an economic question