

# Excel Examples

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- Spreadsheet applications like Microsoft Excel, Google Sheets, and Numbers for macOS and iOS are powerful tools for managing, organizing, manipulating, and visualizing data.
- Many jobs require at least some proficiency with spreadsheets so learning to use them is a worthwhile investment in your productivity.

- In the following videos, you will learn how to do the following tasks in Microsoft Excel:
  - 1 Download and open csv (comma-separated values) files in Excel and save them in an Excel (.xlsx) format
  - 2 Basic spreadsheet navigation and manipulation including how to select cells and how to copy, cut, and paste selected cells
  - 3 Use formulas to compute functions of spreadsheet elements. Also how to use built-in functions like SUM, AVERAGE, and STDEV.S
  - 4 Construct high-quality line graphs and scatter plots
  - 5 Save your plots as an image file (png, jpeg, or pdf)

- The examples will make use of US labor market data, obtained from FRED:
  - Unemployment Rate (UNRATE)
  - Unemployment Rate - Men (LNS14000001)
  - Unemployment Rate - Women (LNS14000002)
  - Civilian Labor Force Level - Men (LNS11000001)
  - Civilian Labor Force Level - Women (LNS11000002)
  
- Data and these slides are file here:

<https://www.briancjenkins.com/teaching.html>

Figure 1: **Unemployment rate** for the US. Source: FRED.

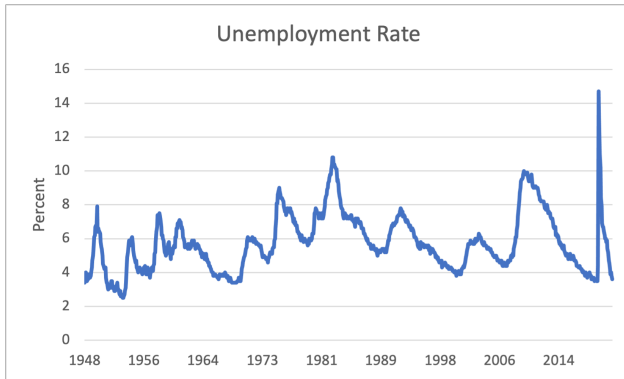
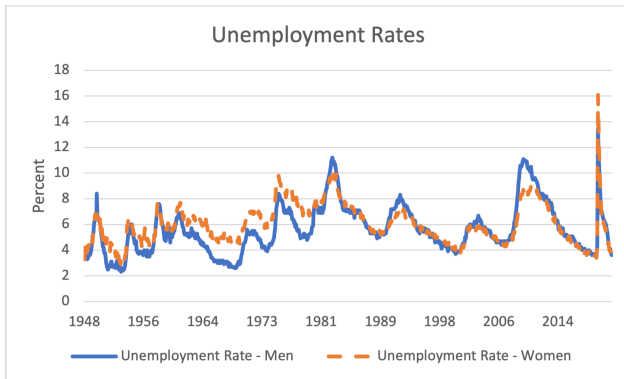


Figure 2: **Unemployment rates for men and women** for the US. Source: FRED.



**Figure 3: Unemployment rate for women against unemployment rate for men for the US.** Source: FRED.

