# CS 2810: Computer Organization and Architecture

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Readings are from our textbook, *Computer Organization and Design ARM Edition: The Hardware Software Interface*.

Changes to the schedule will be announced in class.

## Resources

- **Syllabus**
- **Examples from class**
- Setting up [ssh](#) to connect to [cs2810.cs.dixie.edu](http://cs2810.cs.dixie.edu) without typing a password:
  - [Written instructions](#)
  - [Screencast demo](#) (note, the written instructions are slightly simpler—open that page and follow along while you watch the screencast).
- **Command-line tutorial**
- **Modern Microprocessors: A 90-minute Guide**

## git and ssh

- [git book](#)
- [cheat sheet](#)

## Screencasts

- Binary and hexadecimal number systems (Khan Academy)
- Two’s complement review (11:44)
- Float review (13:47)
- Converting numbers to floats (10:23)
- Python script to convert 9-bit floats into decimal fractions
- Setting up ssh: the best way for Linux, macOS, or WSL users to connect to leghorn
- Getting started with grind and the ARM64 sum function
- Example ARM64 problem: wordcount with intro to gdb

## Assembly language

- [ARM64 assembly language notes](#)

## Midterm exam practice

- Binary/decimal/hex practice problems
- Two’s complement practice problems
- Float practice problems