Project Guidelines

# General Information

This project is a unique opportunity to translate and create curriculum and has lots of opportunity for independence and impact. Because of the distinct differences between Python and Matlab, there will be instances where you will have to use google, StackOverflow or MAthworks’ forum to find the answers. That’s the fun part in my book: finding solutions is the fun part of being an engineer.

We want to preserve the continuity of the course: as such, we want the wording and code to be both clear, and have continuity lesson to lesson. That continuity will come hopefully through standard practices we all use and regular discussion and reviewing

## Deliverables

* A complete course in Matlab
  + Matlab LiveScripts with formatted text and code for Lessons, and Templates for assignments
  + Completed LiveScript Assignments
  + Video Walkthroughs
* If time Permits:
  + .m and .MD formats in addition to LiveScripts

## Project Process

This project requires independent work as well as coordination to complete tasks desired. While Matlab is robust, there are many things that are not analogous

We will meet briefly each week to discuss recent work and address any questions or changes in direction.

# Text Conventions

Our goal is to create documents that are user-friendly, teach material, and allow for coding to occur. To do this, formatting should help students learn and not become a distraction. Clarity should be the priority as well as cleanliess.

General guidelines:

* Use the preformatted Title font for the title, and the headings to separate sections
* Use the code font when discussing specific code terms or snippets
* Use bolded text for code when referring to code inline
* Use Latex for equations and values
* Use original photos rather than snippets

# Coding Conventions

* Comment so that the code is very readable and each variable and function’s purpose is clear
  + Inline comments should have two spaces preceeding the % and one after
* Functions should include a pythonic docstring describing the purpose, inputs and outputs
* Spaces in workbooks for student input should be mentioned in code blocks and be marked by the text INPUT [] BELOW with 20 %’s in a line the line below the text and 20 %’s afterward if the code extends further
* Spaces before and after operators
* Variable and function names should be descriptive—we aren’t paying per line
* Functions should use Camel case(likeThisWhereAllButTheFirstWordIsCapitalized) and variable names should use underscores if more than one word is needed

# FAQ