

Matlab Quiz: Topics to Know

*Please remember that this is a QUIZ -- it's not worth much, and it's not meant to be daunting.
You got this! Don't ruin your weekend studying :)*

Matlab (Lectures 14-16)

- *The better you can navigate MATLAB, the simpler the quiz will be -- Make sure to look over these lectures and play around with commands in MATLAB!*
 - The quiz is **closed internet, closed note**... but if you just so happen to know how to access MATLAB help docs from MATLAB, we encourage you to do so ;)
- Know your syntax!
 - How do we write a *conditional statement* in Matlab?
 - How can we construct/transpose matrices, access their elements, get their size?
 - How do we create *functions*
 - How do we create *anonymous* functions
 - Logical operators, conditional operators
 - Logical arrays (and how to use them)
 - Like how we used `find()` in hw10

Linear Algebra (Lectures 17-18)

- Matrix Operations
 - What makes matrices equal?
 - How can we add, subtract, and multiply matrices?
 - Matrix multiplication vs. element-wise multiplication?
 - Properties of matrix multiplication? (is it distributive, commutative?)
- Least Squares
 - At a high level, what is this?
 - How do we compute it in matlab?

Image Processing (Lectures 19-20)

- Matlab structs
 - Just know how to access members, don't worry about how to make a struct
- `regexp/regexpi`
 - Don't memorize operators, but know how to combine them!
- Generally, know how to plot an image
 - `figure, plot, colormap`, and the like
 - Again, don't memorize, you can use matlab to help you remember the inputs to these functions, but you should know what functions exist at your disposal