

Lec16 IAM550 J. Raeder 10/24/2019 Rehash arrays, loops, functions

Announcement:

- Midterm II scheduled for Thursday, November 7, during class time, 60 minutes.

Review Exam.

All on the blackboard or real time MATLAB

- Rehash loops, assignments in vectors.
 - Vectors → 1d arrays
 - Create array: assignment, sequence, zeros, ones, rand
 - 2d arrays
 - how to index array, left, right side
 - for loops: sum array, dot product, matrix product, $a+s*b$
- More on for loops
 - Loop over anything in a vector
 - Loop over string arrays
 - Nested loops
 - Translate sums into loops → Fourier sum
- More on for loops
 - Histogram (cubed random numbers, Ex1_grades.txt)
 - Show cubing as for loop or vector operation
 - Plot histogram → bar() function
 - Random walk / drunken sailor histogram
 - Population age histogram