

# **16.216: ECE Application Programming**

Fall 2015

## Lecture 20: Key Questions

October 21, 2015

1. Explain how 2-D arrays are passed to functions.

2. **Example:** Say we have a program that stores student exam scores in a 2-D array:
- Each row represents an individual student
  - Each column represents one of the 3 exams

Write functions to:

- Calculate the exam average for each student and store it in a 1-D array that is accessible in the main program
  - Assume all exams have equal weight
- Calculate the average for each exam and store it in a 1-D array that is accessible in the main program
- Each function takes the same arguments:
  - The 2-D array
  - The # of students in the class
  - The 1-D array that will be used to hold the averages

2 (cont.) Extra space to write functions