

# **16.216: ECE Application Programming**

Fall 2011

## Lecture 34: Key Questions December 7, 2011

1. Explain how pointers are used to access structure variables.
2. Explain how structures are passed to and returned from functions.

3. **Example:** Write the following functions that use the `StudentInfo` structure
  - Given a pointer to a single `StudentInfo` variable, print all of the student info to the screen using the following format:
    - Michael J. Geiger
    - ID #12345678
    - GPA: 1.23
  
  - Given an array of `StudentInfo` variables, compute and return the average GPA of all students in the list

- Prompt the user to enter 3 lines of input (using the format below), read the appropriate values into `StudentInfo` elements, and return a value of type `StudentInfo`
  - Format (user input underlined)
  - Enter name: Michael J. Geiger
  - Enter ID #: 12345678
  - Enter GPA: 1.23