16.216: ECE Application Programming

Spring 2012

Lecture 37: Key Questions May 4, 2012

1.	Explain ho	w pointers	are used to	access str	ucture variables.
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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:
 - o Michael J. Geiger
 - o ID #12345678
 - o 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
 - o Format (user input <u>underlined</u>)

o Enter name: Michael J. Geiger

o Enter ID #: 12345678

o Enter GPA: 1.23