

>>> Chapter 5 quiz for *Foundations of Engineering* <<<

Name _____ SSN _____

Welcome to the very last quiz in *Foundations of Engineering*. This is a short answer quiz. Please put your answers in the designated answer areas. The questions from this quiz come from the lecture and the book (chapter 5). Each problem is worth 12 points (4 points are for free). This quiz is open notes, but not open book. Your notes may only contain handwritten material generated by you. You have 20 minutes.

- 1) Complete the sentence with one or more words, "Quality education is more than **just taking courses**"

- 2) What are some (give at least three) of the benefits of becoming involved in student organizations? **Meet social needs, develop leadership and organizational skills (personal development), professional development, academic development, and service to the institution and community.**

- 3) What is the undergraduate research program at USF called? **Research Experience for Undergraduates (REU).**

- 4) A prospective employer will always ask themselves (finish the sentence with one or more words), "Will we **enjoy** having this student in our organization."

- 5) You should always put something back into the system. List three things you can do for your institution (as described in Landis) **Provide feedback, serve as an ambassador, and help other students.**

- 6) The National Electric Code prescribes color codes for wiring. Describe the key color codes for residential wiring. **Black is hot (current source), white is neutral (current return), and green or copper is ground. Also, red is hot.**

- 7) Why is 120V dangerous but 5V is not dangerous if it is true that current kills? **120V is enough "pressure" to push a sufficient current through your body (and your heart) to kill you. 5V is usually not enough pressure given the resistance of skin and your body.**

- 8) The course is almost over. I have had fun. I hope that you have too. Please give me some feedback on the textbook. If you did not think the text book was very good, please recommend a book (or type of book) that you think would be better suited to a "freshman engineering" class.
Any answer with some insight and exhibiting intelligence will count for full points.