

>>> Chapter 2 Quiz for *Foundations of Engineering* <<<

Name _____ SSN _____

This is a short answer quiz. Please put your answers in the designated answer areas. The quiz questions for the quizzes in the three sections of *Foundations* that I teach are largely different. I will “norm” the quiz scores at the end of the semester to account for any differences between the sections. The questions from this quiz come from the lecture and the book (chapter 2). Each problem is worth 12 points (4 points are for free).

This quiz is open notes, but not open book. Your notes may not contain photocopies (or scans or anything similar) of anything. That is, the notes must be handwritten. You have 15 minutes. Later quizzes will be more difficult and longer than this one!

1) Answer “what is engineering” in one sentence **“Engineering is the application of science to the common purpose of life” (Count Rumsford)**

2) In the engineering process after the EVALUATE DESIGNS step comes the **IMPLEMENT** step.

3) Electrification is the number one achievement listed in the 20th century's great engineering achievements. What is the number two listed achievement? **Automobile**

4) List the five “classic” engineering disciplines **Civil, Mechanical, Electrical, Chemical, and Industrial**

5) Which of the engineering disciplines is the “people oriented engineering”? **Industrial**

6) List three specialties of Electrical Engineering **Power, Communications, and Electronics (also Controls, Instrumentation, and Computers)**

7) Are you likely to find a Department of Petroleum Engineering in the state of Maine? State yes or no and then explain your answer. **No. Petroleum Engineering is usually a regional speciality for state with oil (e.g., Texas) and Maine has no oil.**

8) Is it better to generalize or specialize? **No right answer. Generalizing makes you ready to work in many areas but less competitive in any given area. Specializing might make you better prepared (and more competitive) for one area.**