

>>> Chapter 3 (mostly) quiz for *Foundations of Engineering* <<<

>>> SOLUTIONS <<<

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 (chapters 2 and 3). 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. You have 20 minutes.

1) What are the steps to becoming a Professional Engineer? **You must graduate from a 4 year ABET accredited program, pass the FE exam, gain four years of engineering experience, and finally pass the PE exam.**

2) Describe the "60 hour rule" **Sixty hours per week is about what a normal person can sustain on a weekly basis for a long time. You need 2 hours outside the classroom for each hour inside. So, for a 12 hour load you can have a 20 hour part-time job for 60 hours per week load.**

3) You should not be too proud to seek help. List the key resources from which you can get help. **You can find help from peers, professors, TAs, and tutoring office. The "peers" part is very important.**

4) "You must collaborate when **legal** to do so" (fill in the missing word).

5) What is the ideal size of a study group and why **The ideal size is about two to three people. In larger groups it is difficult to ensure equal participation. Larger groups will typically break into subgroups of two to three in any case.**

6) Dale Carnegie had six rules on how to win friends and influence people. List four of these rules:

1) Be interested in others, 2) Smile, 3) Person's name is sweetest sound, 4) Be a good listener, 5) Talk in terms of others interests, 6) Make other person feel important.

7) What is the basic rule in note taking? **Whatever is written on the board should be written in your notebook.**

8) When preparing for a test you should cover no new material. What does this mean? **You should study everyday and never let the next lecture come-up on you without having studied the material from the previous lecture. Thus, when you study for the exam there is no new material... you have studied and understood everything already.**