

>>> 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) Who can call themselves an engineer? Does the same apply for doctor or lawyer? What is being done about this?
Anyone can call themselves an engineer regardless of training or measurement of competence (e.g., via an exam). This is not the case for doctors or lawyers. P.E. licensure may be one way to bring the same level of professional stature to engineering by allowing only P.E.'s to legally call themselves "engineers".

- 2) When we say you should be "selfish" regarding your engineering study, what do we mean? **This means that you should be stingy with your time. You need to spend time on your studying and now have less time to spend on others. You cannot afford to give away your time. Lost time can never be recovered.**

- 3) 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.**

- 4) Finish the quote (one or more words), "If you really want to learn a subject, then **teach it.**"

- 5) You should make use of your professors. What can they do for you? How can you make best use of your faculty?
One-on-one instruction, advising, job guidance, serve as references, nominate you for scholarship, etc. Make use of faculty office hours!

- 6) What is the title of Dale Carnegie's famous book that was translated to many languages?
Dale Carnegie's famous book is titled "How to Win Friends and Influence People.

- 7) Why should you be nice to your professors? **Because they are human and because this can help you. This does not mean "sucking up" (being patronizing).**

- 8) How does the sports analogy of training to run a race apply to studying for an engineering degree? **This analogy describes how you need daily training and that running (studying) 20 hours the night before a race (exam) will actually be more harmful than beneficial.**