

Comments on Physics 212

3 Hours of lecture, 2 hours of Workshop, 2 Hours of Lab (separate course)

Why so much Physics 212?

1. It is good for your future career as an engineer, scientist...

If you MASTER Phy 211, Phy 212 together with the related first three terms of calculus you have basically about half (the most useful half) of your undergraduate science education. It is not a course you need to pass just to get to the professional level courses. It completes the job of getting you to be a professional in the sense that you should have the mind set and skills to handle whatever comes along. You should be able to handle scientific jobs already. (Mastering 212 involves mainly working hard; you don't have to be a "genius".)

2. The material is absolutely fascinating. The understanding of the "electrical force" is one of the greatest achievements of human activity. Besides the revolutions in technology it has lead directly to the understanding of light and to the newer understanding of space and time which is called Relativity. These aspects will be covered as well.