

Physics 152 –Spring 2007

Subject matter:

Physics 152 covers the subject of electricity and magnetism (10 weeks) and thermal physics (4 weeks). These are interesting and challenging topics because they (especially E&M) are more removed from everyday experience than was the subject of mechanics. Our goal is that you understand these concepts and can readily solve problems. I have high standards and expectations, and I hope to help you succeed at mastering this material.

Contact information:

The course website is at <https://webct.oit.umass.edu/> - we will be using the WebCT system. This site is password protected. Your login will be your OIT and UMail user name and password. If you do not have an OIT account with a name and password, you must get one (at the OIT office on the first floor of the LGTC). The ID's should be loaded at the start of the semester – if you register late your information will be entered within 24-48 hours. Until the end of the add-drop period you can visit the site under the guest name “guest” and password “guest” (don't type the quotes) to gain access.

Textbook:

The official textbook is Randall Knight's *Physics for Scientists and Engineers: A Strategic Approach*, Volume 4 (E&M) and Volume 2 (Thermo). We start with Electricity and Magnetism. Frankly, other textbooks can be used, although I do feel that Knight's is the best of the lot. If you use a textbook other than Knight's, you are responsible for verifying the correct correspondences of the chapters and sections for a given topic.

Homework:

We will use the Mastering Physics homework system that comes with Knight's textbook, when it is purchased new. If you do not buy the book new, you will also have to purchase access to the Mastering Physics system.

We will use the PRS system in class. If you do not already have a PRS transmitter you will need to purchase one. This can be done at the bookstore.