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so many fake sites. this is the first one which worked! Many thanks

## PHYS 12201320: Physics II – E&M and Thermodynamics

General Information		
Instructor:	Office: R. Michalski, 211 PS	E-mail: radm@uwyo.edu
TAC:	NA	

**Office hours (RM):** T-Th 4pm, F 11am or via email or by appointment  
(Open door most mornings until 10 am arrival before the following day. Do not drop in hold office hour from 9-12)

**This course fulfills university program requirement (SOP: 50) for 4 credit hours**

**Lecture:** MFR 12:10 to 2:00 CR 215

**Laboratory & discussion:** WF 12:10 to 2:00 PH313

**Text:** Sears & Zemansky's University Physics, 13<sup>th</sup> edition by Young&Freedman (older editions may vary substantially; second hand books often come with expired homework key)

**MasteringPhysics:** [www.masteringphysics.com](http://www.masteringphysics.com) (see picture link for 13<sup>th</sup> ed. Go to University of Wyoming and choose class **PH1220M14**)

**Website:** You will find lecture templates and other course related information on my website [www.physics.uwyo.edu/~radm](http://www.physics.uwyo.edu/~radm)

**Supplementary Reading Suggestions:** On your request I am happy to name some useful texts, which adopt different teaching approaches than Young's text.

**Course Content and Course Pre-Requisites:**

This course is an introduction to the physical phenomena temperature and electric charge. We will approach the material from theoretical and applied angles. Our course is part of the suite of experimental physics courses. Consequently, significant emphasis is put on developing laboratory skills. Some physics courses differ from our engineering courses in that we pay much more attention to where laws and equations come from (deriving them) and what their range of applicability is. All laws of physics have significant limitations attached to them and where they apply. It is important for any deeper understanding that the student develops an insight into these aspects of physical laws.

We will use concepts previously learned in Mechanics, like Newton's Laws and conservation laws. With them and with new empirical observations we will explore how the presence of electric charge causes the numerous phenomena of electricity and magnetism.

We will learn about the rules which govern circuitry. As we go along, we will discover fundamental laws called the Maxwell equations, which allow us to describe all of these phenomena and since the concepts of magnetism and electricity are two aspects of the same thing: electric charge and its motion. We will learn to describe the electromagnetic phenomena as the results of the propagation of electromagnetic waves.

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