Physics 431: Electricity and Magnetism  
Fall 2009:  Section 431001  

Instructor: Witold Nazarewicz  Office: 104 South College  
Phone: 974-4375 (or 482-7328 at ORNL)  E-mail: witek@utk.edu  
Office Hrs: 9:30 - 10:30 TR (or by appointment, if this does not work for you.)  
Class: 8:10 - 9:25 TR in Nielsen Physics 512  

Text:  *Introduction to Electrodynamics, 3-rd Ed* by David J. Griffiths  

Tests and Grades:  
- Mid-term exam 35%  
- Homework 25%  
- Final exam 40%  

**Class preparation and protocol:** It is extremely important to keep up with the work in the class, since  
the material builds on itself. Each day, you should preview the topics for the next class; after the class,  
you then study the topics in detail, working the assigned exercises and problems, etc. You can help make  
the class more productive by thoughtful questions and careful attention. Please check immediately that  
you understand all credits earned on exams, homework, etc.: one week after I return them, the grades will  
be “frozen” as is.  

**Disabilities:** Any student who feels s/he may need an accommodation based on the impact of a disability  
should contact me privately to discuss your specific needs. Contact the Office of Disability Services at  
974-6087 in Hoskins Library to coordinate reasonable accommodations for students with documented  
disabilities.  

**Cheating:** Cheating will not be tolerated – every person should have an equal chance to do well. The  
penalty for cheating on *any aspect* of this course will be an "F" for the course, in addition to all other  
actions permitted by University rules. No outside materials are permitted on any test or exam, except as  
stated explicitly by the instructor.  

Tests:  
- Mid-term Exam: 8 October 2009  
- Final Exam: 3 December 2009 *(Thursday)* at *8:00 - 10:00 AM*  

Grading scale:  
- A = 100-90; B = 80-90; C = 70-80; D = 60-70; F < 60  

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<td>set 3: # 2, 3, 5, 6, 9, 11-14, 16, 17, 21, 22, 31, 32</td>
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OUR OBJECTIVES in this COURSE

Gain **deeper understanding** of Electricity and Magnetism.

Develop a **more generalized approach**, summarized in Maxwell’s Equations.

Advance your skills and capability for **formulating and solving problems**.

Hone your **math skills**.

Expand and exercise your **physical intuition** and instincts.