

# Physics 369, Electromagnetism II, Spring 2006

**Lecture location/time:** CF 314, 3pm MWF  
**Instructor:** Milton From  
**Office:** CF 377, **Phone:** (360)650-6593, **Email:** from@physics.wvu.edu  
**Website:** follow the links from <http://newton.physics.wvu.edu/from/>

**Reference Materials:** The main text for the course is *Introduction to Electrodynamics* by David J. Griffiths (3rd edition). The WWU library has a large number of other useful texts on this subject. These may be found in the section QC670 in Wilson 4W. Griffiths' text does a nice job of reviewing the vector calculus that we'll need. However if you'd like a slightly more in depth review with some example problems I recommend the book *Div, Grad, Curl, and all that* by H. M. Schey. The WWU library also has a large number of vector calculus texts in the section QA261 in Wilson 4W. The course website includes links to the course syllabus, weekly assignment listings, and assignment and test solutions. We will occasionally make use of *Maple* symbolic algebra software in class and in assignments. Please familiarize yourself with this software if you have not already used it in previous courses.

## Approximate Schedule (Last revision: 28 Mar 2006):

Week	Dates	Text chapters	Assignments		Tests
			Questions	Solutions	
1	Mar 28-31	5	<a href="#">1</a>	<a href="#">1</a>	
2	Apr 3-7	6	<a href="#">2</a>	<a href="#">2</a>	
3	Apr 10-14	7	<a href="#">3</a>	3	
4	Apr 17-21	7	<a href="#">4</a>	4	
5	Apr 24-28	8	<a href="#">5</a>	5	Wednesday Apr 26
6	May 1-5	9	<a href="#">6</a>	6	
7	May 8-12	9	<a href="#">7</a>	7	
8	May 15-19	10	<a href="#">8</a>	8	
9	May 22-26	11	<a href="#">9</a>	9	
<b>Review assignment is due on Monday, May 29, 5pm</b>					
10	May 29- June 2	11	<a href="#">10</a>	10	
	<b>Wednesday June 7, 3:30-5:30</b>				<b>Final Exam</b>

**Homework:** There will be an assignment of 8-10 problems each week. These assignments are due on Mondays at 5pm. Solutions to the assignments will be posted on the web at this time and thus late assignments will not be accepted. Many of the problems on course tests will be similar to those on the assignments. I encourage you to work with other students on the assignment problems. However please write up your own final solutions independently. Please come see me if you need hints or clarification on points in my assignment questions or solutions.

**Tests:** There will be a one-hour mid-term test, and a final two-hour cumulative exam. You may use the text as well as one mathematics reference book of your choice during the tests. No other reference materials will be allowed.

**Quizzes:** There will be at least six short (5 minute) quizzes given at random points throughout the course. These will be closely related to the previous few days' lectures or to the previous week's assignment.

**Review Assignment:** This will be an assignment with long answer questions from each of the chapters covered in the course. *It may include questions requiring the use of Maple or equivalent computer algebra software.*

**Grades:**

Quizzes	15% (average of best 5)
Midterm Test	25%
Assignments	30%
Review assignment	10%
Final Exam	20%

LETTER GRADE SCALE

<b>Percentage</b>	90-100	85-89	80-84	77-79	73-76	70-72	67-69	63-66	60-62	57-59	53-56	<53
<b>Grade</b>	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F