

# PHY 222 Syllabus - 2014FA

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Office Hours: MW 11-12:30, M-Th 12:45-2:00

**Class Stuff:** Welcome to Physics II, PHY 222 - University Physics (Calculus-based). Physics is "HOW STUFF WORKS!" It's interesting and a lot of fun and will change the way you look at things. In addition to these class procedures, all policies on the official school syllabus are in force:

<http://www.midlandstech.edu/science/PHY222.pdf>

**Textbook Stuff:** Textbook is a free download - <http://openstaxcollege.org/textbooks/college-physics/get>. The bookstore should have **OPTIONAL** print copies ~\$60. Labbook is on D2L - download, print, bring. Calc Addendum - to be released - download, print, bring.

**Class Website:** For pdfs of lecture notes, etc. <https://sites.google.com/site/mtcphy/home>

**Grade Stuff:** This semester your grade will be made up of the following:

- 75% - Class Grade, made up of homework grades, test grades, pop quizzes and a final. Test Stuff - Test questions count three points each with up to one point of partial credit if I can find some good work that shows you were on the right track. Homework Stuff - I will collect homework notebooks at every test and award up to 4 pts for each time I check hw as follows: 2 pts for two randomly selected problems, 1 pt for order and neatness, 1 pt for completeness and work shown. Final Stuff - Final exam questions are graded right or wrong.
- 25 % - Lab Grade – Lab report/quizzes are due in D2L within one week of the lab.

Since I will drop the low HW, pop, test and lab grade, I will not offer makeups for any missed grades and I don't do retakes of grades. If you tell me in advance, or the day of a test of a serious schedule conflict, I will consider allowing a makeup.

## Problems & Exercises

Chapter 13: 26, 28, 32, 37, 41, 43, 44, 46, 47, 53, 56, 58, 61

Chapter 14: 27, 32, 34, 37, 39, 41, 50, 56, 58, 63, 81, 88

Chapter 15: 40, 42, 45, 49, 52, 57, 59, 65, 68, 74, 82, 92

Chap 18: 33, 35, 39, 42, 44, 48, 59, 63, 71, 73, 74, 78, 80, 92

Chap 19: 31, 38, 40, 50, 62, 69, 77, 83, 89

Chap 20: 33, 60, 65, 72, 74, 82, 93

Chap 21: 41, 43, 45, 62, 77, 102, 107, 111

Chap 22: 33, 41, 44, 63, 67, 69, 82, 86, 88

Chap 23: 74, 76, 79

Chap 24: 23, 28, 39, 40, 46

Chap 25: 35, 37, 40, 42, 41, 42, 43, 53, 59, 70, 77, 79

## **Tips for Physics Success Stuff:**

- Don't get behind!
- Do your homework!
- Draw a picture!
- Figure out what the variables are and find a formula that uses those variables!
- Ask for help!
- Come by/call/email/ask in class!
- Enjoy!

**Tentative Schedule Stuff:** This might happen...

	M Lecture	M Lab	W Lecture	W Lab
Aug 25-29	13	Recitation	13	Thermal Exp
Sep 1-5	X	X	14	Calorimetry
Sep 8-12	14	Gas Laws	15	Boyle's Law
Sep 15-19	15	T1	18	Resistance
Sep 22-26	18	Recitation	19	DC Circuits
Sep 29-Oct 3	19	Recitation	20	Recitation
Oct 6-10	21	Recitation	Review	T2
Oct 13-17	X	X	X	X
Oct 20-24	22	Recitation	22	Magnetism
Oct 27-31	23	Recitation	23	Power Supply
Nov 3-7	23	Recitation	Review	T3
Nov 10-14	24	Recitation	25	Light
Nov 17-21	25	Recitation	26	Optics
Nov 24-28	26	Recitation	X	X
Dec 1-5	27	Recitation	Review	T4
Dec 8-12	Final Review		Final 1-3 pm	