

PHY 221 Syllabus - 2014SP

Me Stuff: Instructor: Lee Craig

Office: Northeast 373

Office Phone: (803) 691-3921

Email: craigl@midlandstech.edu

Office Hours: M-F 8:30-9:30, MW 11-12:30

Class Stuff: Welcome to Physics I, PHY 221 - College 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/jlh/files_pdf/PHY221.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. Calculus Addendum - 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 1 (p.35): 1, 3, 5, 7, 9, 17, 23, 29, 30

Chapter 2: (p.83) 3, 5, 13, 15, 17, 21, 23, 25, 29, 31, 35, 41, 45, 47, 57

Chapter 3 (p.121): 1, 5, 15, 20, 22, 23, 25, 27, 43, 53, 57

Calc Supplement - Test 1 & 2

Chapter 4 (p.161): 1, 3, 9, 13, 15, 17, 29, 35, 49

Chapter 5 (p.188): 1, 4, 8, 9, 11, 13, 17, 20, 25

Calc Supplement - Test 3

Chapter 6 (p.221): 1, 3, 5, 7, 15, 19, 20, 23, 25, 27, 33, 45, 47

Chapter 7 (p.260): 1, 3, 5, 9, 22, 25, 27, 32, 33, 36, 45, 48, 49, 59

Calc Supplement - Test 4

Chapter 8 (p.288): 1, 5, 7, 9, 13, 17, 21, 23, 27, 29, 41, 43, 50, 52

Chapter 9 (p.316): 1, 3, 7, 9, 21, 23

Calc Supplement - Test 5

Chapter 10 (p.356): 1, 3, 7, 9, 11, 13

Chapter 11 (p.396): 1, 3, 5, 7, 9, 17, 23, 29, 30

Chapter 12 (p.428): 5, 9, 23

Calc Supplement - Test 6

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...

	T Lecture	T Lab	Th Lecture	Th Lab
Aug 25-29	1	Recitation	2	Kinematics
Sep 1-5	2	Recitation	3	Vectors
Sep 8-12	3	Trajectories	Review	T1
Sep 15-19	4	Recitation	4	Newton's
Sep 22-26	5	Recitation	5	Friction
Sep 29-Oct 3	Review	T2	6	Circ Motion
Oct 6-10	6	Recitation	7	W&E
Oct 13-17	X	X	7	Recitation
Oct 20-24	Review	T3	8	Mom
Oct 27-31	8	Recitation	9	Statics
Nov 3-7	9	X	Review	T4
Nov 10-14	10	Recitation	10	Density
Nov 17-21	11	Recitation	11	Buoyancy
Nov 24-28	12	Recitation	X	X
Dec 1-5	12	Recitation	T5	
Dec 8-12	Final Review	x	x	x
Dec 15-19	Final 8-10 am			