

PHY 201: College Physics I
Spring 2018

Time:	Tues./Thurs. 2:00 pm - 3:15 pm, S277
Instructor:	Dr. Jon M. Saken
Office:	S178 (Science Bldg.)
Phone:	696-2753
E-mail:	saken@marshall.edu
Office Hours:	Mon. - Thurs. 10:00-11:00 am, or by appointment
Final Exam:	Thursday, May 3, 12:45 pm - 2:45 pm
Required Text:	<i>College Physics</i> , Etkina et al., 1st ed., with <i>Mastering Physics</i> access.

Catalog Description: (*3 hours*) First half of an introduction to physics for life-science students, using algebra and vectors by triangles: force, energy, particle dynamics, rotation, fluids, waves, thermal phenomena.

Grading:	Homework	10%	A	90 - 100
	Quizzes	10%	B	80 - 89
	Tests (3)	60%	C	70 - 79
	Final Exam	20%	D	60 - 69
			F	0 - 59

Homework: Homework will be conducted using the textbook publisher's *Mastering Physics* system. An access code should have been bundled with the textbook if you bought it at the campus bookstore. Otherwise, you may register on-line. The course ID is: **PHY201SPRING2018** Note that the access code and the course ID are **NOT** the same thing. The access code is what proves you have paid to use the system. The course ID tells the system which course to put you in. To repeat: **the access code is NOT the same thing as the course ID.**

With two exceptions, homework will be due on Fridays, as shown on the course schedule.

A Few Notes on Homework: Please do the homework. Please allow enough time on the homework so that you can think about your responses and pay close attention to the questions. It is not intended to be mere busy work but is instead an important part of the learning experience. Believe it or not, education research has been conducted to show what may be obvious - students who do the homework for themselves (not copying off of someone else or looking up the answers on-line) do much better in the course.

I can't make you do the homework. I can't make sure that you always do it for yourself. But I can guarantee that you will severely lower your chances of getting a good grade, or even passing, if you don't do the homework. *So, please do the homework.*

Quizzes: A short quiz based on the previous week's homework will be conducted at the beginning of class on Tuesdays (with one exception; see course schedule). The quiz will end at 15 minutes after the hour. *Anyone arriving late will have less time to complete the quiz, or will not be allowed to take it.* The lowest quiz grade will be dropped.

Final Exam: The final exam *will* be cumulative.

University Policies:

By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to <http://www.marshall.edu/academic-affairs> and clicking on "Marshall University Policies." Or, you can access the policies directly by going to:

<http://www.marshall.edu/academic-affairs/policies/>

Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Policies:

- **ALL** work submitted must be typed (word-processed) and stapled with your name written clearly on the front. No exceptions.
- Any work handed in late will suffer a 10% penalty per **calendar** day. This does not apply for any day for which there is an excused absence.
- Makeup work will **NOT** be allowed except for *documented* emergencies.
- If you must miss a class contact me immediately. Also, be sure to let me know at least a week ahead of time if a university activity will require an absence from class.
- If you do miss a class, even for an excused absence, contact me immediately if you are unsure what was covered or what you need to make up. If you wait too long to discuss a make up you may be denied the opportunity to do so.
- Cell phone use is not permitted in the classroom. Please turn cellphones to OFF or vibrate while in class.
- Except for calculators, *all other electronic devices must be turned off in class*. Laptops, tablets, etc. Research has shown that not only do students retain more of the material when they take notes by hand, but also that laptops and tablets are a distraction to other students. So put them away during class time.
- Any act of academic dishonesty of any kind will result in a final grade of F for the class.

Course Goals:

Students will:	Practiced by:	Assessed by:
Identify the equations and principles needed to solve problems in mechanics and thermal physics.		
Use graphs, sketches, and/or diagrams as aids in conceptualizing physics problems and explaining their answers.		
Formulate and clearly communicate valid strategies for solving word problems in mechanics and thermal physics.	Classroom activities & discussions; Homework	Tests & Final Exam
Use basic algebra and trigonometry to calculate physical quantities.		
Apply to physics problems the basic operations of vector algebra.		

January 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9 Vectors	10	11 §1.1 - 1.8	12 HW #1 Due	13
14	15 MLK Day	16 Quiz: HW#1 §2.1 - 2.5	17	18 §2.6 - 2.10	19 HW #2 Due	20
21	22	23 Quiz: HW#2 §3.1 - 3.3	24	25 §3.4 - 3.6	26 HW #3 Due	27
28	29	30 Quiz: HW#3 §4.1 - 4.3	31			

February 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 §4.4 - 4.6	2 HW #4 Due	3
4	5	6 Test #1, Ch. 1 - 4	7	8 Quiz: HW#4 §5.1 - 5.3	9 HW #5 Due	10
11	12	13 Quiz: HW#5 §5.4 - 5.7	14	15 §6.1 - 6.5	16 HW #6 Due	17
18	19	20 Quiz: HW#6 §6.6 - 6.9	21	22 §7.1 - 7.3	23 HW #7 Due	24
25	26	27 Quiz: HW#7 §7.4 - 7.7	28			

March 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 §8.1 - 8.4	2 HW #8 Due	3
4	5	6 Quiz: HW#8 §8.5 - 8.7	7	8 Test #2, Ch. 5 - 8	9	10
11	12 HW #9 Due	13 Quiz: HW#9 §19.1 - 19.5	14	15 §19.6 - 19.10	16 HW #10 Due <i>Drop Day</i>	17
18	19	20 <i>Spring Break</i>	21	22 <i>Spring Break</i>	23	24
25	26	27 Quiz: HW#10 §20.1 - 20.6	28	29 §20.7 - 20.11	30 HW #11 Due	31

April 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3 Quiz: HW#11 §10.1 - 10.4	4	5 §10.5 - 10.7	6 HW #12 Due	7
8	9	10 Quiz: HW#12 §11.1 - 11.4	11	12 §11.5 - 11.8	13 HW #13 Due	14
15	16	17 Test #3, Ch. 19,20,10,11	18	19 Quiz: HW#13 §12.1 - 12.4	20 HW #14 Due	21
22	23	24 Quiz: HW#14 §12.5 - 12.7; §13.1 - 13.2	25	26 §13.3 - 13.4	27 HW #15 Due	28
29	30					