

Professor's Help Hours: Wed 10:30a-12:30p, Thurs 11:45-12:15p, 1:15p-2:45p, 4:15p-6:15p

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Pre- or Co-requisite: Math 1512 (Calculus I)

Necessary Equipment:

-Computer, with Internet access

-Text: Halliday & Resnick's Fundamentals of Physics Extended 10th ed., by Jearl Walker

-Calculator: A scientific calculator will often be useful—arithmetic, scientific notation, trig/inv trig functions, exponents, and logs. Calculators may be used on tests, although all solutions requiring calculations must show those calculations, clearly and in detail, on paper—merely writing down a result from a calculator (other than arithmetic), without giving the full reasoning &/or mathematics behind it, will result in reduced credit.

Course Learning Objectives: By the end of the course, the student should be able to correctly explain and solve problems involving at least the following: 1) units of physical measure; 2) linear motion: position, velocity, and acceleration; 3) basic vector arithmetic; 4) force, types of forces, and the concept of net force; 5) Newton's 1st, 2nd, & 3rd laws of motion; 6) free-fall motion; 7) two-dimensional projectile motion; 8) mechanical energy: kinetic, gravitational potential, and elastic; 9) rotational motion; 10) translational and rotational equilibrium situations; 11) centripetal force and acceleration; 12) torque and its effect on rotation; 13) simple harmonic motion; 14) wave motion, including 15) sound.

Academic Dishonesty as defined in the UNM-VC catalog includes copying work from other students. Any student found doing this on tests is subject to disciplinary action, ranging from “a reduced or failing grade for the work in question and/or the course” to “dismissal from the University” <http://pathfinders.um.edu/campus-policies/academic-dishonesty.html>

Disruptive Behavior is any behavior which interferes with other student's learning or the instructor's ability to guide that learning. Examples include loud talking/ laughing/chatting with your buddy which require repeated warnings from the instructor, or derisive/ridiculing comments toward well-meaning students or the instructor—this is a good way to get expelled from the class. Keep your motives constructive, and it'll be a good educational experience.

Disabilities (UNM-VC): Should you have a documented disability requiring special accommodations, contact UNM-Valencia Campus Student Services, 505-925-8560

Any *Sexual Misconduct* or Gender Discrimination brought to the instructor's attention must be reported by the instructor to UNM's Office of Equal Opportunity and Title IX Coordinator. For information regarding what comprises sexual misconduct, see <http://policy.unm.edu/university-policies/2000/2740.html>

Homework: Due on Review Days, before class starts. Turn in by chapter; do not run chapters together; do not split chapters. Make the

Main problem #s **Big**—e.g. **5, 9, 23**_a).....that's right, do not make a, b, c...big. Separate probs on the same page with either extra whitespace or a heavy separation line.

Homework late, in by next class day: -50%. Late more than next class day: -100%.

Attendance: Expected. After 4 accumulated absences, the student may be dropped from the course without notice. If you have a work or other unavoidable conflict, you should see the Instructor, to decide whether an alternative policy that allows you to miss more should apply, or whether you should drop and take the course another time.

Makeup Work: Tests: There are no makeup tests, except in genuine emergencies—in such cases, expect a max score 80%. (Early tests, however, might be arranged without penalty.) If you skip a test, you cannot receive an A+ or A for the course. Homework again : 1 day late, -50%; 2 days late, -100%.

Grade weighting:

		Max possible points	
Homework		200	
4 tests		400	
Drop lowest test		-100	
Final exam (not dropped, comprehensive, min score 70% to pass course)		<u>150</u>	
		650	max poss course total
$634 \leq x \leq 650$	A+ (unless a test is missed, or homework score is less than 50%).		
$601 \leq x < 634$	A (unless a test is missed)		
$585 \leq x < 601$	A-		
$566 \leq x < 585$	B+		
$536 \leq x < 566$	B		
$520 \leq x < 536$	B-		
$504 \leq x < 520$	C+		
$471 \leq x < 504$	C		
$455 \leq x < 471$	C-*		
$390 \leq x < 455$	D		
$x < 390$	F		

*There may be courses or programs which will not accept a C- as adequate for Physics 1310. It is your responsibility to determine if this will apply to your future courses or degree.

Finally, a positive note: Tutoring in Physics may be available, free, from UNM Valencia Campus Tutoring Services
<http://valencia.unm.edu/campus/resources/the-learning-center/learning-center-html>