

## Phys 1144 – General Physics

**Instructor:** Randal Hallford, Assoc. Professor Chemical Physics, Dept. of Chemistry and Physics

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**Textbook:** *College Physics*, 4<sup>th</sup> Edition. Knight, Jones and Field Pearson Pub. 2019 (ISBN: 9780134609034)

**Office Hours:** MTWTh 2:00 – 3:00 pm, 279 Dillard

**Lab:** T 3:00-4:50 or McCoy 203

**Lecture:** MWF 1:00 – 1:50 pm.

**Grading:** *Labs* – 25%, *Homework* 25% *Exams*– 40%

The sum of the weighted values in each area is your total score for the course.

90%=A, 80%=B, 70%=C 60%=D 59% or less =F

**Course Website:** Portal, D2L. Lab D2L

**Course Description:** This course is designed to introduce the student to the basic concepts of physics (i.e. to be able to solve problems) from linear kinematics to thermal physics and sound.

**Attendance:** While attendance is not factored into your grade directly, you must attend class regularly if you hope to do well. Excused absences include university sponsored events, illness (documentation required showing you saw a doctor – you do not need to disclose why) and the death of an immediate family member (parents, children, siblings, etc.).

*Under no circumstances will make-up exams or extra assignments be given. One missed exam may be made up based on the final exam (substitute final exam score for the missed quiz score) if unavoidable circumstances exist. This means your final would count twice.*

The evaluation of student material is the domain of the instructor. Standard grading policy is followed without exception.

We will adhere to MSU's standard policy.

Refer to the MSU website calendar for any important campus-wide dates, such as the final exam date.

Questions about the grading of any assignment should be brought to the instructor within *one week* after the assignment is returned.

**Lab:** All lab assignments must be completed during the lab period unless otherwise noted. If you cannot attend your normal section at any time, please try to attend the other section of the same week. If this is not possible, you must make arrangements with the TA to make-up the lab.

**Drop Policy:** Dropping from the course after the last drop date assigns a grade of **F**. If the lecture is dropped, the lab must also be dropped (with a second drop form).

**Attendance:** Attendance to lecture is necessary. Students are responsible for all material presented in class and in assigned material. In-class exercises will not be provided outside of class.<sup>1</sup>

**Studying:** It is important to study outside of class on a regular basis; working problems is the best way to learn physics.

**Academic Dishonesty:** Cheating on any exam, quiz or lab report will be regarded as academic dishonesty and **may be subject to a zero or a final course grade of F for all involved.** See below for details.  
AI tools, such as chatGPT use is considered misconduct in this course and is not allowed.

**General Education Statement:** Students in this course must demonstrate their competency in reading, writing, and fundamental math skills through satisfactory completion of all assignments.

**Americans w/ Disabilities Act Compliance:** If any student needs special accommodations, the Office of Disabled Student Services Clark Student Center, room 108 (397-4618), and the instructor will provide a reasonable and fair opportunity to perform in this class. Please inform the Student Service as early as possible.

**Note:** By enrolling in this course, the student expressly grants MSU a "limited right" in all intellectual property created by the student for the purpose of this course. The "limited right" shall include but shall not be limited to the right to reproduce the student's work product in order to verify originality and authenticity, and for educational purposes. All materials associated with this course are copyrighted by MSU, the text publisher and the instructors, and may not be published on social media, websites or other means without the express written permission of MSU, the publishers and the instructors.

**MSU policy requires that cell phones be turned off during class periods.** You may not use one for a calculator. Having a cell phone in operation during an exam will result in an F for that exam automatically.

**→PDA's, iPads and other internet enabled electronic devices are NOT allowed during class. Cell phones must be OFF** during any scheduled class period.

#### **Campus Carry :**

Senate Bill 11 passed by the 84<sup>th</sup> Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at <http://mwsu.edu/campus-carry/rules-policies>.

**Remaining enrolled in this course implies acceptance of this syllabus.**

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<sup>1</sup> Refer to the MSU handbook for University policies about academic honesty and class attendance

The [MSU Student Handbook](#) covers Academic Honesty under University Policies and Procedures. Academic dishonesty is defined as cheating, collusion, and plagiarism.

- Cheating is (1) the use of any unauthorized assistance, (2) dependence upon the aid of sources beyond those authorized by the Instructor, or (3) acquisition, without permission, of tests or other academic material.
- Plagiarism is the use of another person's published or unpublished work without full and clear acknowledgment.
- Collusion is collaboration with another person in preparing work offered for credit if the faculty member in charge does not authorize that collaboration.

**Tentative Schedule:**

<u>Chapter</u>	<u>Topic</u>	<u>Exams</u>
1	Motion	
2	Kinematics in 1-D	
3	Vectors and Kinematics in 2-D-----	Module 1 exam- Units, Motion and Vectors. (1,2, 3)
4	Newtonian Mech. 1, Forces	
5	Newtonian Mech. 2, Dynamics and Equilibrium	Module 2 exam-Forces, Circular Motion and Rotational (4,5,6)
6	Circular Motion -----	
7	Rotational Kinematics	
8	Elasticity and Equilibrium	Module 3 exam- Linear and Rotational momentum, Equilibrium (7,8,9)
9	Momentum -----	
10	Work and Energy	
11	Thermodynamics 1	Module 4 exam- Thermodynamics 1,2; Fluids. (10, 11,12, 13)
12	Thermodynamics 2	
13	Fluids -----	
14	Oscillations (Simple Harmonic motion)	Module 5 exam- SHM, Waves and Sound (14,15,16)
15	Wave Phenomena	
16	Standing Waves and Superposition -----	