

General Physics Laboratory PHYS 112L

Professor

Dr. Jared Workman

Labs

WS 214 8:00-9:45 Monday – 001 25966

WS 214 10:00-11:45 Monday – 002 25967

Welcome to Physics 112, Lab

This syllabus is your guide to class policies and procedures as well as a tool for planning. Each student is encouraged to work with the instructor and their peers. The general objective for each student in this course is to learn some fundamentals of physics such as electricity, magnetism, and optics in a hands on, laboratory based setting.

Physics can be a very daunting subject when first encountered, the notions can appear strange and different students learn in different ways. If you do not understand something please come by and ask me for more help. You are also encouraged to work with you peers.

What to look for in this syllabus

- ☐ How to contact me
- ☐ Evaluation (grades)
- ☐ Lab Policies
- ☐ Resources for student assistance
- ☐ Student Conduct
- ☐ Important Dates

How to Contact Your Instructor

Visit my office: WS 230C

Office Hours: Wed, Thu, Fri 9:00-10:00, & Tue, Thu 11:00-12:00 or by appointment

Leave me a message at: (970)-248-1327 (email is much better)

Email me at: <mailto:jworkman@coloradomesa.edu>

Evaluation

Grades will be assigned as follows:

Excellent	A	> 90%
Good	B	80%-90%
Average	C	70%-80%
Deficient	D	60%-70%
Failing	F	< 60%

I can be contacted at any time to give you an update of your current grade. You are allowed to miss one lab, the rest must be completed during the lab period. If you know you will be absent contact me before hand to make arrangements to take the lab at another instructor's scheduled time.

Your grade will be the arithmetic average of the lab write-ups.

You may drop one lab. After the first missed lab each following missed lab reduces your final grade by 10% making it almost impossible to pass the course with 4 missed labs. You will be given the opportunity to make up a missed lab during the week the lab is being performed IF another instructor has space and time. You will be required to find another lab and obtain permission from the instructor, I will not make arrangements for you.

Lab Policies

The main goal of lab is to help you learn physics by getting hands-on experience doing experiments and exercises related to topics discussed in class. Lab will meet each week during the semester and attendance is mandatory. If you must miss a lab, contact your lab instructor before missing lab to schedule a make-up. Lab make-ups are dependent on another instructor having the space to accommodate you. If none exists the lab **may** be waived if the circumstances requiring you to miss it are excused by the instructor.

Required materials for lab include a calculator.

Labs will involve doing a more or less standard physics experiment. For these you will pass in a brief lab report, including data, calculations, figures, and results.

Labs are designed to be completed during the 2 hour lab period, usually no pre-reading or after lab work (other than the write up) will be required. After each lab you will pass in a brief lab report or completed exercise at the beginning of the following lab. These will be graded and passed back the following week. Your final grade will be based on an average of these grades and attendance.

Labs will closely follow topics covered in the course, with a variety of labs investigating the motion, force, energy, etc.

You will be given handouts for most labs and will be expected to complete them during the period and create the write-up after the lab is over. Do not attempt to do the write up during lab.

You will be required to work with a partner. You should work together to produce the write up. If your partner is not doing their share please tell me and I will re-assign or separate you.

Labs which are not stapled will be penalized 10%. Lab write ups which do not have units EVERYWHERE will be penalized a further 15%.

There is a standard lab write up format which will be demonstrated in the first lab, if you fail to follow this format you will be penalized 25% of your grade for that lab. Lab penalties are cumulative so a lab write up with no staples, units, and the wrong format will suffer a 50% penalty. Occasionally, the format for the lab will be simplified for the week, generally this will occur when labs are problem solving sessions.

Student Success at CMU

http://www.coloradomesa.edu/academics/documents/StudentSuccessatCMU_WCCC.pdf

Resources for Students

Your instructor: I am here to help you learn; please let me know if you are having trouble with anything! My contact information is at the top of the syllabus, or you can talk to me after class or during my office hours.

The Course Website: Contains all class information and several helpful (and some just fun) links.

Tutorial Learning Center: HH113 <http://www.coloradomesa.edu/tutoring/index.html>

Students With Disabilities: Students with disabilities have certain privileges extended to them including but not limited to extended exam time. It is your responsibility to contact the EAS (Educational Access Services) At Houston Hall, Room 108, 1-970.248.1856 <http://www.coloradomesa.edu/eas/links.html> and bring me the necessary forms for any special dispensations received.

Class Policies

All students expected to follow the Student Code of Conduct. Violations of the Student Code of Conduct may result in disciplinary action. The code of conduct is here here

http://www.coloradomesa.edu/academics/policies/academic_integrity.html. Some specific items that are important in this class are:

1. Don't call me mister, it's Dr. Workman.
2. Create and sustain a respectful and quiet learning environment. Allow your fellow students to learn and the instructor to teach. Disrespectful, disruptive or abusive behavior toward an individual or group is unacceptable. If you disrupt your classmates I will dis-enroll you from the course.
3. Due to the rapid pace of this course, late work is generally not accepted. In the event of illness, family emergency or other special circumstances, you must contact me BEFORE the deadline to make arrangements for late work or early tests. At the instructor's discretion, you may then turn in the work within 1 week of the deadline.
4. I encourage participation, ask questions, email me, ask for reading material for your own edification after the course is over, provide me with feedback. I am not directly grading you on participation but it will play a factor in the end of the semester grade. This is an interesting topic and I want you to be involved in learning it.
5. Turn off your cell phone.
6. No smart phones, ipads, earphones, etc during class time, no texting or web browsing. You all get one freebie phone ring then I may ask you to leave. I reserve the right to temporarily or permanently remove a student for the continued disruptive use of electronic equipment.
7. Laptops are fine for note taking but please do not web surf during class. If I find you surfing the web you forfeit your laptop privileges. Students using laptops are required to sit at the front of the class.
8. I will turn any students I find cheating, copying each other's work, or plagiarizing material over to the department chair, no exceptions. If you are unsure if something is prohibited, ask me. You are encouraged to work together but please do not hand in identical assignments, they will not be accepted.
9. Please arrive to class on time and wait until class is over to leave. I will remove students who regularly arrive late from the course.
10. It is your responsibility to learn of any missed work.
11. Don't talk during class, raise your hand whenever you want to but don't talk. I reserve the right to require you to leave the class for the day or completely dis-enroll you from the course for talking during lecture.

Important dates:

<http://www.coloradomesa.edu/registrar/dates.html>

Work Load Expectations:

An undergraduate student should expect to spend on this course a **minimum** of one hour outside the classroom for every two hours in the lab. More details are available from the faculty member or department office and in CMU's Curriculum Policies and Procedures Manual.

Disclaimer: The instructor reserves the right to modify this syllabus and schedule.