

Physics 101 - Syllabus, Fall 2024

1 Basic information.

- Instructor: [Eugeniy E. Mikhailov](#)
- Class Time: MWF 11:00 - 11:50 am, Small 110
- Office hours: MF 12-1pm in Small 110 or Small 253 or by appointment
- Text book: **Open Stax University Physics, Vol. I** by Ling, Sanny, and Moebs (free at <https://openstax.org/details/books/university-physics-volume-1>).

2 Course Overview.

This course is an introduction to topics in classical mechanics, including Newton's Laws, conservation of energy and momentum, angular motion, gravitation, and wave motion. This is a calculus-based course, designed for students who intend to concentrate in the physical sciences. It is required that you take Calculus I (Math 111 or 131) concurrently, if you have not taken it already.

3 Evaluations.

Your final grade for the course will be determined from the following grading weight distribution:

- Lectures attendance is optional
- Homeworks: 20%
 - Deadline is on Monday 11:59pm.
 - There is 10% per day late penalty fee.
 - The homework will not be accepted if delayed more than a week.
- Midterms (3 of them): 50%
 - The lowest midterm exam score (only one) will be dropped.
 - If you miss any midterm exam (without **prior** arrangement) its score is assigned to 0 and above formula is applied. If you miss more than two, only one score is dropped.
- Final Exam: 30%

3.1 Illness.

Notify the instructor if you are ill, so that arrangements can be made.

4 Homework.

One of the most important part of the class to and assess your understanding of the material. There is a big jump between being told what to do and being able to do it by yourself, the homework prepares your and reveals voids in comprehension. It super good idea to attempt

solving homework **before** problem sections, than you can ask questions which will help you to move forward.

The homework will be posted at [ExpertTA class page](#)

5 Problem Section.

Each week you should attend a 50-minute problem section class taught by a faculty member. The problem section instructor will be responsible for assigning your final grade for the course. Certain exam problems may be taken from examples discussed during the problem sessions.

- Your problem section instructor can add up to 2% participation or engagement bonus to your final score.
 - Asking good questions or be proactive with answers counts.
 - There might be other ways, discuss them with your problem sector instructor.

6 Laboratory.

The laboratory (PHYS 101L) is an optional, separately administered one credit course. You may take PHYS 101 without taking the lab, but keep in mind that physics majors are required to have taken lab before graduation. The lab cannot be taken without either being enrolled in the lecture class or having previously passed 101.

6.1 Grading scheme.

Grade	Score percentage	Grade	Score percentage	Grade	Score percentage
		A	94-100	A-	90-94
B+	87-90	B	84-87	B-	80-84
C+	77-80	C	74-77	C-	70-74
D+	67-70	D	64-67	D-	60-64
F	<60				

7 ADA Accommodation.

William & Mary accommodates students with disabilities in accordance with federal laws and university policy. Any student who feels they may need an accommodation based on the impact of a learning, psychiatric, physical, or chronic health diagnosis should contact Student Accessibility Services staff at 757-221-2512 or at sas@wm.edu to determine if accommodations are warranted and to obtain an official letter of accommodation. For more information, please see <http://www.wm.edu/sas>.

8 Mental and Physical Well-Being.

William & Mary recognizes that students juggle different responsibilities and can face challenges that make learning difficult. There are many resources available at W&M to help

students navigate emotional/psychological, physical/medical, material/accessibility concerns, including:

- The W&M Counseling Center at (757) 221-3620. Services are free and confidential.
- The W&M Health Center at (757) 221-4386.
- To seek assistance for interpersonal, academic, and wellness challenges, please contact Care Support Services at <https://wm.edu/care> (<mailto:care@wm.edu>).



- For a list of other [resources](#) available to students, see [here](#) or: