

Section 1: TTh 8:00 – 9:15 am Brevard 134

**Physics 213: General Physics I
Spring 2022**

Course Description: This course is the first part of an algebra-based treatment of introductory physics. Topics include Newtonian mechanics, energy, rotational motion, fluids, oscillations and waves. Of the courses Phys 107, Phys 211, and Phys 213, only one can be counted toward a degree.

Course Objectives:

- Develop conceptual reasoning and physical understanding.
- Improve numerical problem solving skills.
- Solve problems including kinematic equations, forces, conservation of energy and momentum, rotational equilibrium, hydrostatics, and fluid dynamics.
- Understand wave motion and the properties of sound.

Prerequisite: (Math 121 and Math 123) or Math 125 or Math 261

Corequisite: Phys 223: Laboratory Physics I

Lectures: TTh 8:00 – 9:15 am in Brevard 134

Testing: during normal class time and location

Instructor: Dr. Jennifer Meyer (call me Dr. Meyer or Prof. Meyer)

Office: Lewis 211B

Phone: 662-915-2673

E-mail: jameyer2@olemiss.edu (this is the best way to reach me)

“Office” Hours:

TTh 9:15 - 10:00 am in Lewis 104

Friday 1:00 - 3:00 pm in Lewis 104

Tuesday 11:00-11:50 am on Zoom <https://olemiss.zoom.us/j/9246403326>

or 1:1 appointments in Lewis 211B or Zoom (email me to set up a time!)

Textbook: College Physics, 11th edition by Serway and Vuille.
e-book access is sufficient and included with the homework system

Required Materials:

- WebAssign (online homework) access
- Scientific calculator without internet access. If purchasing a new calculator, I recommend TI-30XS MultiView or TI-36X Pro.

Grading:	Online Homework	120 points (12 x 10 points each)
	Offline Homework	120 points (24 x 5 points each)
	Exam 1	120 points
	Exam 2	120 points
	Exam 3	120 points
	Final Exam	120 points

	Total Possible	720 points

Grading scale:

662.4 ≤ points	A	(percentage ≥ 92%)
648 ≤ points < 662.4	A -	(90% ≤ percentage <92%)
626.4 ≤ points < 648	B +	(87% ≤ percentage <90%)
590.4 ≤ points < 626.4	B	(82% ≤ percentage <87%)
576 ≤ points < 590.4	B -	(80% ≤ percentage <82%)
554.4 ≤ points < 576	C +	(77% ≤ percentage <80%)
504 ≤ points < 554.4	C	(70% ≤ percentage <77%)
432 ≤ points < 504	D	(60% ≤ percentage <70%)
points < 432	F	(percentage <60%)

Online homework:

Online homework will be due on Fridays at 11:59 pm Central Time and **should be accessed through the WebAssign link under Course Content on Blackboard**. The link will bring you to both the homework assignments and the e-book. WebAssign is available for purchase on its own (through the Blackboard link) or through Cengage Unlimited, a subscription that gives you access to all Cengage products.

WebAssign for College Physics 5 Months ISBN: 9781337879675	\$100	Valid only for this textbook, this term. Best option for most people.
WebAssign for College Physics 10 Months ISBN: 9781337939782	\$125	Valid for this textbook, for up to 10 months. Best option if you plan to take 214 at UM in the summer.
Cengage Unlimited (4 months)	\$119.99	Includes unlimited access to Cengage textbooks or digital learning platforms for multiple classes.
Cengage Unlimited (1 year)	\$179.99	“
Cengage Unlimited (2 year)	\$239.99	“

WebAssign has a two week grace period to use it free before paying – so I recommend holding off on purchasing access until you have figured out which of these options is best for you.

Online homework can be completed after the deadline by requesting an extension on WebAssign. In order to receive an automatic extension, you must request an extension on WebAssign before you view the key and no later than 14 days after the homework due date.

Offline Homework:

Solutions to two problems, worth 5 points each, will be turned in via Blackboard on Fridays by 11:59 pm Central Time. You can write your work on paper and then use a free phone app (Adobe Scan, Tiny Scanner, etc) or a physical scanner to create the pdf to upload. Or, if you have a tablet, you can do your work on there and save it as a pdf.

I will be posting the solutions to these problems on Blackboard shortly after the due date, so I won't be able to accept late submissions without prior permission – if you have a special circumstance or issue, email me on or before the due date.

Exams:

Three midterm exams and a **mandatory comprehensive final**, as shown on the schedule on the last page. The dates of the exams and final will not change unless class is canceled for unforeseen reasons (weather, emergency, etc.). The chapters covered on each exam may change, if needed. No make-up exams will be given unless arrangements are made in advance or the same day, in case of unforeseeable emergencies. If you miss an exam or the final without making prior arrangements, you will receive a zero.

The lowest midterm exam score (including a zero) can be replaced with the final exam score, if the final exam score is higher than the lowest midterm exam score. At the end of the term, the Blackboard gradebook will show this adjustment in a column marked “Drop Lowest.”

Academic Honesty:

You may work with other students on the offline homework questions, but you cannot copy their work. Make sure that all work submitted is your own, so that you would be able to fully explain it to me or redo a similar problem if asked. Uploading the materials from this class to Chegg or other cheating websites or using any solutions that are posted there would violate the UM Standards of Honesty. Consequences for academic dishonesty depend on the seriousness of the offense and may include a grade of F.

Attendance:

Consistent lecture attendance is important for your learning. **You will be able to make up any work you miss due to isolating, quarantining, or getting tested for COVID. Please do not come to class if you are feeling ill!**

University Classroom Health Requirements:

- Currently, COVID-19 guidelines for the Spring 2022 semester include face masks for vaccinated and unvaccinated people inside University buildings; therefore, students should not be in classroom spaces when they are out of compliance with these guidelines unless they have an accommodation approved by Student Disability Services.
- If you are exposed to someone with COVID-19, you should contact the Student Health Center to be tested three to five days following exposure and follow the guidance recommended by the Health Center. You should follow quarantine protocols found at <https://coronavirus.olemiss.edu/students/>.
- If you need to isolate due to contracting the coronavirus at any point this semester, you must do so, and email me as soon as possible. I will work with you to help you continue your progress in the course. If students test positive for COVID-19 at any health care facility, they must contact the Student Health Center at 662-915-7274. University Health Services will coordinate contact tracing to lessen the likelihood of spread.

Student Support Services:

The University Counseling Center is a professional facility offered by the University of Mississippi to assist students, faculty, and staff with many types of life stressors that interrupt day-to-day functioning, including the stressors associated with the COVID-19 pandemic. They offer individual counseling, couple’s counseling, group counseling, stress management, crisis intervention, assessments and

referrals, outreach programs, consultations, and substance abuse services. There is no fee for currently enrolled University students and everything you say to your counselor is confidential. You can contact the Counseling Center for information about mental health issues at <https://counseling.olemiss.edu>, counslg@olemiss.edu, 662-915-3784, and 320 Lester Hall. You can schedule an appointment or get information about appointments by calling the UCC at 662-915-3784.

University-wide Policies:

Attendance

The university requires that all students have a verified attendance at least once during the first two weeks of the semester for each course. If your attendance is not verified, you will be dropped from the course and any financial aid will be adjusted accordingly. Please see <http://olemiss.edu/gotoclass> for more information.

Academic integrity and honesty

Students are expected to adhere to the University of Mississippi Creed and the Standards of Honesty as described in Policy Code ACA.AR.600.001 and the [M Book](#). Students are reminded that cheating in any form will not be tolerated. Performance on all tests and assignments shall represent the individual work of the student. Those who violate the Standards of Honesty will be reported and subject to the appropriate sanction, which may include expulsion from the University.

Intellectual property

All materials distributed electronically and in hard copy in this class are protected under intellectual copyright. Any attempt to upload these documents to a file sharing service or to profit from their distribution by any means constitutes theft and will be in violation of intellectual property law and the UM Academic Conduct Code unless expressly permitted for by the instructor.

Nondiscrimination policy

The University complies with all applicable laws regarding affirmative action and equal opportunity in all its activities and programs and does not discriminate against anyone protected by law because of age, color, disability, national origin, race, religion, sex, sexual orientation, handicap, or status as a veteran or disabled veteran.

Disability Access and Inclusion

The University of Mississippi is committed to the creation of inclusive learning environments for all students. If there are aspects of the instruction or design of this course that result in barriers to your full inclusion and participation, or to accurate assessment of your achievement, please contact the course instructor as soon as possible. Barriers may include, but are not necessarily limited to, timed exams and in-class assignments, difficulty with the acquisition of lecture content, inaccessible web content, and the use of non-captioned or non-transcribed video and audio files. If you are approved through SDS, you must log in to your Rebel Access portal to request approved accommodations. If you are not yet approved through SDS, you must contact Student Disability Services (at 662-915-7128 or sds@olemiss.edu) so the office can (i) determine your eligibility for accommodations, (ii) disseminate to your instructors a Faculty Notification Letter, (iii) facilitate the removal of barriers, and (iv) ensure you have equal access to the same opportunities for success that are available to all students.

Examinations and last week of class

Regulations governing all examinations – A student's failure to appear for an examination without an acceptable excuse, inability to present valid identification, absence from the room during the course of an examination without the consent of the examiner, or attempting any portion of an examination

without submitting his or her answers shall result in failure of the examination. Tardiness beyond 15 minutes forfeits a student's right to an examination.

Final examinations – A final examination, to be given at the time posted in the examination schedule, is required in each undergraduate course, unless the appropriate chair and dean have approved an exception. A student who has three or four final examinations in one day may arrange with the course instructor to take the noon or 7:30 p.m. examination at another time. In order to give a final examination at any time other than that shown in the posted examination schedule, an instructor must have prior approval of the department chair and dean.

Last week of class – The following guidelines exist to allow sufficient time for students and instructors to prepare for final examinations. These guidelines apply to the week preceding final examinations for undergraduate courses held during Fall and Spring semesters.

During the period of Wednesday through Friday of the last week of class, instructors are not to give exams, tests, or quizzes that contribute more than 10% of the final grade for a class. An instructor can obtain approval of the department chair and dean to give an exam, test, or quiz, of this weight, during this three day period. Instructors should return graded work and/or inform students of their grades on exams, tests, or quizzes prior to the beginning of finals week. Exceptions to the above statement are automatically made for lab-based courses, technical writing courses, seminar courses that assign a term paper, and senior design courses that assign a multi-faceted project in lieu of a final exam. Major projects of the above types, which contribute more than 10% of the final grade and which are due during this Last Week period, should be assigned in the syllabus at the beginning of the semester and any substantial change in the assignment should be made known to students before the drop deadline.

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Reading Schedule: Please read these sections in the textbook before class each day.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1 1/17 - 1/21	MLK Jr. Day No class	1.1 - 1.9 Syllabus		1.9 - 1.10	
Week 2 1/24 - 1/28		2.1 - 2.2		2.3 - 2.4	Online 1 Offline 1,2
Week 3 1/31 - 2/4		3.1 - 3.2		3.2 - 3.3	Online 2 Offline 3,4
Week 4 2/7 - 2/11		4.1 - 4.2 Review		Exam 1 1-3	Online 3 Offline 5,6
Week 5 2/14 - 2/18		4.3 - 4.5		4.6 - 4.7	Online 4 Offline 7,8
Week 6 2/21 - 2/25		5.1 - 5.2		5.3 - 5.6	Online 5 Offline 9,10
Week 7 2/28 - 3/4	W deadline	5.7, 6.1		6.2 - 6.3	Online 6 Offline 11,12
Week 8 3/7 - 3/11		Overflow and Review		Exam 2 4-6	Online 7 Offline 13,14
Spring Break 3/14 - 3/18	No class	No class	No class	No class	No class
Week 9 3/21 - 3/25		7.1 - 7.3		7.4 - 7.5	Online 8 Offline 15,16
Week 10 3/28 - 4/1		8.1 - 8.3		8.4	Online 9 Offline 17,18
Week 11 4/4 - 4/8		8.5 - 8.6		9.1 - 9.5	Online 10 Offline 19,20
Week 12 4/11 - 4/15		9.6 - 9.9		13.1 - 13.6	No class
Week 13 4/18 - 4/22		Exam 3 7-9		13.7 - 13.11	Online 11 Offline 21,22
Week 14 4/25 - 4/29		14.1 - 14.5		14.6-14.7 14.11 - 14.13	Online 12 Offline 23,24
Finals Week 5/2 - 5/6		Final Exam T 8:00 am			