

MERCER COUNTY COMMUNITY COLLEGE
Science and Health Professions

COLLEGE PHYSICS I
PHY 101
Lecture Hours 3
Lab Hours 3
Credits 4

Dr. Huang
Prof. Dimas
Dr. Ho
Dr. Ganesh
Prof. Popp

Course Description

This is the second part of a two-semester sequence in college physics. Algebra and trigonometry are used throughout the course. Topics include mechanics, heat, sound, and properties of matter.

Prerequisites/Co-requisites

Corequisite: MAT 115

Student Learning Outcomes

1. Students will be able to gain knowledge of a broad introduction to physics at the beginning college level.
2. Students will be able to develop physical intuition and problem-solving skills.

Course Materials

A text book is required for the lecture, the laboratory, as well as the homeworks. Required textbook: Serway and Vuille: College Physics Volume I, 8th Edition
Publisher: Thompson-Brooks-Cole

Recommended Laboratory Manual: Cioffari: Experiments in College Physics, 10th Edition
Publisher: D.C. Heath

Calculator with trigonometrical functions is required for lecture, laboratory and tests.

Cell phones are NOT allowed during test or quiz. Using of cell phone during class in any manner is considered disruptive to class and may results in lower grade and/or student being disallowed in the classroom. The instructors are responsible to perform spot-checking of cell phones.

Calculators CAN NOT be shared during any test.

Evaluation & Requirements of Students

Laboratory: 40%
Tests: 60%

There is no make-up exam or experiment. One lowest lab grade and one lowest test grade will be dropped. In the case of excessive absences, the instructor has the option to assign WU or I grade. Students are allowed to attend a different section, if available, with the instructor's permission for up to two times.

Class Attendance Policy

Students are required to attend all classes. In case of emergency, medical or other relevant documentation are required to submit to instructor. Student should sign attendance sheet at every class.

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Class Policy on Plagiarism and Academic Integrity

Plagiarism is the presentation of someone else's ideas, words or artistic, scientific, or technical work as one's own creation. Using the idea or work of another is permissible only when the original author is identified. Paraphrasing and summarizing, as well as direct quotations, require citations to the original source. Plagiarism may be intentional or unintentional. Lack of dishonest intent does not necessarily absolve a student of responsibility for plagiarism. Students who are unsure how and when to provide documentation are advised to consult with their instructors. The library has guides designed to help students to appropriately identify a cited work.

Supporting Services

Our faculty provides office hours to help students with questions. The best way to take advantage of the time is to go prepared with specific questions to ask after studying.

Our library holds the text book for in-library use.

Our tutoring center provides tutors for Physics. Please walk over behind the bookstore to check out the tutoring schedule.

Campus Security

The non-emergency number for campus security is (609) 570-3503. You may call security to have a classroom unlocked prior to a class.

Emergency number for campus security is (609) 570-2222.

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Schedule of Lecture and Experiments

Week	Dates	Experiment	Lecture Chapter & Homework	Homework Assignments
1	8/31-9/4 Welcome ☺	Laboratory Introduction & Laboratory Math Overview	1.1, 1.4, 1.5, 1.7	M: 3, 4, 6, 9 C: 3, 5 P: 10, 11a, 13a, 18d, 23, 35, 38, 42, 45
2	9/7 no school 9/8-9/11	Measurement	2.1, 2.2, 2.3, 2.5, 2.6	M: 1, 2, 3, 4, 5, 6, 8, 11 C: 1, 2, 3, 4, 5, 7, 9 P: 1, 2, 3, 7, 9, 21, 23, 24, 29, 32, 45, 50
3	9/14-9/18	Free Fall	3.1, 3.2, 3.3, 3.4	M: 2, 6, 10, 12, 13 C: 1, 3, 4, 5, 9, 10 P: 4, 7, 13, 15, 32, 35, 36, 41, 63
4	9/21-9/25	Vectors and Force Table	Test 1, Chap I-3 4.1, 4.2, 4.3, 4.4, 4.5, 4.6	M: 1, 2, 3, 5, 8, 10, 12, 16 C: 2, 3, 4, 11, 14 P: 2, 5, 6, 20, 26, 25, 27, 30, 40,
5	9/28-10/2	Atwood Machine	5.1, 5.2, 5.3, 5.5	M: 1-12 C: 1, 2, 3, 5, 6, 13, 14 P: 1, 5, 9, 13, 15, 19, 33
6	10/5-10/9	Friction	6.1, 6.2, 6.3, 6.5	M: 1, 2, 3, 4, 6, 7, 9, 12 C: 4, 5, 10, 14 P: 4, 7, 11, 14, 15, 22, 27
7	10/12-10/16	Projectile Motion	Test 2, Chap 4-6 7.1, 7.2, 7.3, 7.4, 7.5	M: 1, 3, 4, 5, 6, 7, 9 C: 2, 8 P: 1, 5, 15, 18, 33, 34
8	10/19-10/23	Equilibrium of a Rigid Body	8.1, 8.2, 8.3, 8.5, 8.6	M: 1, 3, 7 C: 1, 2, 3, 5, 7, 12 P: 1, 4, 9

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9	10/26-10/30	Moment of Inertia	9.2, 9.3, 9.4, 9.6, 9.9	M: 1, 2, 3, 5, 9, 10 C: 3, 8, 9 P: 1, 5, , 16, 18, 21, 29, 31
10	11/4-11/6	Young's Modules	Test 3, Chap 7-9 10.1, 10.2, 10.3, 10.4, 10.5	M: 1, 2, 3, 4, 5, 6, 7, 8, 10, 12 C: 1, 2, 3, 6, 7, 9, 11 P: 1, 2, 3, 5, 11, 14, 29, 31, 39, 42
11	11/9-11/13	Archimedes Principle	11.1, 11.2, 11.4, 11.5	M: 1, 2, 3, 4, 5, 7, 8 C: 2, 3, 4, 5 P: 2, 3, 5, 9 25, 26, 28, 38, 42
12	11/16-11/20	Linear Expansion & Specific Heat	12.1, 12.2, 12.3, 12.4, 12.5	M: 1, 2, 3, 7, 8 C: 4, 5 P: 1, 2, 3,5, 15, 29, 31, 33
13	11/23 (Monday) 11/24 (Thursday) 11/25 (Friday) Thanksgiving	Heat of Fusion & Vaporization	13.1, 13.2, 13.4, 13.5, 13.7, 13.8	M: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 C: 4, 8, 11 P: 2, 10, 18, 20, 35, 43
14	11/30-12/2	Simple Harmonic Motion	Test 4, Chap 10-13	M: 1, 2, 3, 4, 8, C: 1, 3, 38, 39, 40 P: 1, 3, 5, 10, 39, 40
15	12/3-4		14.1, 14.2, 14.3, 14.4, 14.8	
	12/7-9	Standing Wave	Review &	
	12/10-11		Test 5, Chap 1-14	
16	12/14-16			

- The lowest laboratory grade will be dropped.
- One lowest test grade will be dropped.

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- Homework solution will be available on website <http://www.mccc.edu/~huangj/>

Faculty Schedule & Contact Information

Period	Monday	Tuesday	Wednesday	Thursday	Friday
7 am		PHY 101 Lecture 7:30-8:45 MS 214 Dimas Office Hour 9am MS 168		PHY 101 Lecture 7:30-8:45 MS 214 Dimas	
12 am	Office Hour 11am MS 157 PHY 101 Lecture 12-1:15pm MS 214 Huang				PHY 101 Lecture 12-1:15 MS 214 Huang Office Hour 1:30-2:30pm
1 pm		PHY 101 Lab 1:25-4:05 MS 306 Huang	PHY 101 Lab 1:25-4:05 MS 306 Ho Office Hour 4:10 pm MS 306		PHY 101 Lab 1:25-4:05 MS 306 Ganesh Office Hour 4:10pm MS 306
7 pm		Office Hour 6pm MS 306 PHY 101 Lab 7:05-9:45 MS 306 Huang	Office Hour 6pm MS 306 PHY 101 Lab 7:05-9:45 MS 306 Ho	Office Hour 6pm MS 168 PHY 101 Lecture 7:05-9:45 MS 164 Popp	

Name	Phone	Email
Jing Huang	(609) 570-3429	huangj@mccc.edu
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Action Steps for Students, Faculty, and Staff to Prevent the Spread of Flu

August 20, 2009 3:00 PM ET

The Centers for Disease Control and Prevention (CDC) recommends 4 main ways you may keep from getting sick with the flu:

1. **Practice good hand hygiene** by washing your hands often with soap and water, especially after coughing or sneezing. Alcohol-based hand cleaners are also effective.
2. **Cover your mouth and nose with a tissue when you cough or sneeze.** If you don't have a tissue, cough or sneeze into your elbow or shoulder; not into your hands.
3. **Stay home or at your place of residence if you are sick** for at least 24 hours after you no longer have a fever (100 degrees Fahrenheit or 38 degrees Celsius) or signs of a fever (have chills, feel very warm, have a flushed appearance, or are sweating). This should be determined without the use of fever-reducing medications (any medicine that contains ibuprofen or acetaminophen). Staying away from others while sick can prevent others from getting sick too. Ask a roommate, friend, or family member to check up on you and to bring you food and supplies if needed.
4. **Talk to your health care provider** to find out if you should be vaccinated for seasonal flu and/or 2009 H1N1 flu. Information about 2009 H1N1 flu vaccination can be found at: www.cdc.gov/h1n1flu/vaccination. Information about seasonal flu vaccine can be found at: www.cdc.gov/flu/protect/keyfacts.htm.

If flu conditions become MORE severe, students, faculty, and staff should consider the following steps:

. **Extend the time you stay home or at your residence** to at least 7 days, even if you feel better sooner. If you are still sick after 7 days, continue to stay home until at least 24 hours after your symptoms have completely gone away. Symptoms of flu include fever or chills *and* cough or sore throat. In addition, symptoms of flu can include runny nose, body aches, headache, tiredness, diarrhea, or vomiting.

. **Prepare for the possibility suspension of classes** by planning to continue your work at home (e.g., homework packets, Web-based lessons, phone calls), and find a place where you can stay either by going to your home, home of a relative, or close friend of the family.

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