

## SYLLABUS

<b>Class Hours</b>	T	2 p.m. – 4:50 p.m.	Lec	<b>Room :</b> Phys 70
	Th	2 p.m. – 2:50 p.m.	Lec	
	Th	3 p.m. – 4:50 p.m.	Lab	
<b>Class No</b>	55274			
<b>Instructor</b>	Sharon Wu			
<b>Phone</b>	638-3641 ex-3497			
<b>Office Hours</b>	W,Th,F 11:00 am – 11:50 am or By appointment			
<b>Office</b>	FEM 1D			
<b>E-mail</b>	sharon.wu@reedleycollege.edu			

### Course Objectives:

In the process of completing this course, students will:

- Perform some of the simpler calculations in the areas of electricity, magnetism, light, and atomic and nuclear physics.
- Use the appropriate language of physics and mathematics to solve problems in the areas of electricity, magnetism, light, and atomic and nuclear physics.
- Perform simple physics experiments in the areas of electricity, magnetism, light, and atomic and nuclear physics; to acquire understanding of more difficult concepts in general physics.
- Apply basic physics concepts presented in lectures to the completion of problem assignments and lab reports.
- Employ the scientific method in experiments in physics which yield results consistent with information presented in lectures.

### Learning Outcomes:

Upon completion of this course, students will be able to:

- Apply algebra and trigonometry to solve physical problems in the A. following topics:
  - Electrostatics
  - Electric Fields
  - Electric Potential
  - Capacitance
  - Electric Circuits
  - Magnetism
  - Electromagnetic Induction
  - Electromagnetic waves
  - Optics
  - Modern Physics

### Course Outline:

- Electrostatics
- Electric Field
- Electric Potential
- Capacitance
- Electric Circuits
- Magnetism
- Electromagnetic Induction
- Electromagnetic waves
- Optics
- Modern Physics

### Course Prerequisite:

PHYS 2A (C grade or better).

**Textbook:**

Title: Physics 9e  
Authors: John D. Cutnell & Kenneth W. Johnson  
Publisher: John Wiley & Sons, Inc.

**Blackboard**

**Blackboard** is used to post course information, assignments, and announcements.

To log-in Reedley College Blackboard:

**User name:** your student ID

**Password:** (\* Be sure to change your password after you login)

**WileyPLUS**

We continue to use WileyPlus for homework assessment. Go to [www.wileyplus.com](http://www.wileyplus.com), and find Reedley PHYS 2B for spring 2015, and log into your account using the username and password from previous semester. Go to Blackboard for instruction.

**Homework Assignments:**

Homework is assigned for each chapter on WileyPlus.

**Laboratory:**

This class has a lab that is mandatory. There are data sheets that you will need to complete as part of your lab activity that will be due at the end of the lab session. You are required to follow a number of safety precautions in the laboratory. You must read and sign the safety agreement before beginning of the first lab.

**Tests:**

There will be four tests and one final exam. The tests and final exam will have conceptual questions that are multiple choices and detailed physics problems that need to be solved. Early tests can be arranged with a very good reason. A more **difficult** late test can only be arranged if you have an excuse verified by an impartial party (i.e., a doctor or a court note).

**Grading:**

25% of the final grade points are from the average score of homework assignment

5% of the final grade points are from classwork.

10% of the final grade points are from the average score of laboratory work

60% of the final grade points are from the average score of midterms and final.

Final grade is assigned using following scale:

90-100 %	A	60- 69 %	D
80- 89 %	B	< 60 %	F
70- 79 %	C		

❖ **If you have perfect attendance and your grade is within 1 point (or 1%) of the next higher letter grade, the instructor will award you the next higher letter grade.**

**Attendance (Also see Attendance Policy under Academic Regulations in Class Schedule):**

Attendance will be taken at beginning of each class. Students, who leave the class before the end of class, will be counted as tardy. Two tardiness count as one absence. Your classmates and I would greatly appreciate that you take care of your personal needs (i.e., using the restroom, getting a drink...etc.) before the class begins.

Students will be dropped from the class if they fail to attend the first class session of the semester.

During the semester up to final drop date, any student who missed more than two weeks of class meetings (cumulative) will be dropped from this class (**12** hours of classes).

**Student Conduct (Also see Student conduct under Campus Policies in Class Schedule):**

Students are expected to conduct themselves in a responsible manner in the classroom. Specific rules and regulations have been established in Board Policy 5410. A copy of this policy is available in the college library, the Admissions Office, the Vice President of Student Services, the Vice President of Instruction's Office, and in the Student Activities Office. Failure to adhere to the accepted standards will result in disciplinary action.

**Accommodations for students with disabilities:**

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

**Plagiarism and Cheating Policy (See Cheating and Plagiarism under Campus Policies):**

Cheating and plagiarism is prohibited in the class. Incidents of cheating and plagiarism will result a failing grade on the particular examination or assignment in question.

**Important Dates:**

Class begin	Tuesday	01/13/2015
Last day to register	Friday	01/30/2015
Last day to drop this class to avoid a “W”	Friday	01/30/2015
Last day to change to/from a Pass/No-Pass grading basis	Friday	02/06/2015
Last date to drop this class	Friday	03/13/2015
No classes:		
Martin Luther King, Jr. Day	Monday	01/19/2015
Lincoln Day	Friday	02/13/2015
Washington Day	Monday	02/16/2015
Spring Recess	M – F	03/30/2015 – 04/03/2015
<b>Final Exam</b>	<b>Thursday</b>	<b>05/21/2015</b> <b>2:00 pm – 3:50 pm</b>