Instructor: Dr. Balraj Menon  
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Phone: 450 3678  
Email: menonb@uca.edu  
Web: http://faculty.uca.edu/~menonb/  

Lecture: MWF 1:00 pm - 1:50 pm, LSC 168  
Laboratory: Seq 6942: T 8:00 am - 10:40 pm LSC 114  
Seq 6943: T 10:50 am - 1:30 pm LSC 114  

Office hours  
- MWF 8:00 am - 9:00 am, 11:00 am - 12:00 pm, AND by appointment.  
- Feel free to stop by my office at any other time. If I am available and not occupied with anything else I will be glad to help you with your questions.  

Required text  


Other supplies  

Scientific calculator, ruler.  

Web access  
- All documents pertaining to this course are available on WebCT (http://ce2.uca.edu:8900).  
- You need to login to WebCT and add this course. Logging instructions can be found at http://www.uca.edu/aoep/webct.htm.  
- The course is listed as College Physics I (Menon).  

Course description  

PHYS1410 is the first semester of the two-semester College Physics course sequence. In this semester, we will develop the physics concepts and principles required to describe and predict the motion of objects. Our discussions will be interspersed with the application of these ideas to often encountered everyday phenomena. The course also has a laboratory component which will provide you an opportunity to perform experiments and the concepts discussed in lecture will help you explain your experimental observations. The laboratory environment will also introduce you to some of the techniques and methods of experimental physics and the analysis and interpretation of experimental data.  

Lectures  
- The lectures will primarily focus on discussing the various physical principles and concepts arising in each chapter. At this point let me emphasize that the purpose of these lectures is not for me to read the text in class but to focus on strengthening your understanding of the concepts. In other words, to get the most out of these lectures, I would strongly advice you to read the relevant chapters before you come to class (see Lecture schedule for details).
• It is conceivable that some of the topics discussed in lecture may not be covered in the text. For these topics your lecture notes will be your only source of information. So, *keep good notes!*

• You are required to attend *all* the lectures. If you are unable to attend a class period due to a medical reason or some other emergency please inform me by phone or email as soon as possible, preferably before the class meets. Attendance will not be taken every lecture, however, points may be awarded for participating in lecture activities.

• The instructor's lecture notes will be made available on WebCT. To view these lecture notes on your computer you will need to install the software *DyKnow Client* on your machine. The software is free and can be downloaded from the website: [http://www.dyknow.com](http://www.dyknow.com)

**Laboratory**

• The laboratory component is an integral part of this course. The experimental activities have been chosen and designed to complement the lecture course and also introduce you to the methods and techniques of experimental physics. You will be performing these laboratory activities in groups of two or three. Working on the labs diligently will be a very rewarding experience. Points will be awarded for attending the labs and actively participating in the lab activities as an individual and as a group member.

• You are required to attend *all* labs. **If you miss three (3) or more labs you will be dropped from the course with a WF grade.** If you are unable to attend a lab session due to a medical reason or some other emergency please inform me by phone or email as soon as possible, preferably before the lab meets.

• **There will be no make-up labs.**

**Homework**

• Homework assignments will be posted on WebCT.

• Homework assignments will typically include a list of numerical problems and conceptual questions chosen from the text which need to be handed in on due dates for credit.

• The homework assignments submitted will not be graded but you will be given credit for attempting the assigned problems. To get full credit it is important that you attempt all the assigned problems and show all your work neatly and clearly.

• To do well on tests and quizzes it is imperative that you work through all the assigned problems. Feel free to collaborate and discuss these problems with other students from the class. Do not hesitate to come and talk to me if you are having trouble with these assignments.

• **Late assignments will not, in general, be accepted.**

**Lab quizzes**

• Most lab sessions will begin with a 15 minute quiz where you will be tested on the previous lab activity. To do well in the lab quizzes, it is important that you keep a good record of all the work you do in the lab.

• The 15 minute time limit on a lab quiz will be strictly enforced. If you walk in late, you will still have to submit your quiz at the end of the first fifteen minutes (no time extensions) or if you miss the first fifteen minutes of a lab period, you **will not** be allowed to take the lab quiz.
• Your lowest lab quiz score will be dropped while determining your overall laboratory grade.

• There will be no make-up lab quizzes.

Exams

• You will be taking five tests during the semester (see Lecture schedule for test dates). Please mark your calendars to make sure you don't miss these tests. Please be on time!

• The questions on the tests will be drawn from topics discussed in the text and in class, the homework assignments and the laboratory activities. Attending the lectures, reading the text, working through all the assigned homework and the lab activities will help you a great deal in doing well in these tests.

• Your lowest test score will be dropped while determining your average score in the tests. If you miss a test, the missed test will be treated as your lowest test score. There will be no make-up tests.

• There will be a two-hour Final Exam at the end of the semester. It will be comprehensive and most of the questions will be drawn from previous tests, quizzes, and assigned homework.

→ The Final Exam is scheduled for Wednesday, December 14, 2005, from 11:00 am – 1:00 pm in LSC 168.

Course grade

Your grade in this course will be based on your participation in the classroom and labs, quizzes, tests, and the final exam. The various components are weighted as follows:

Homework and class participation: 10%
Laboratory: 20%
Quizzes: 25%
Tests: 30%
Final exam: 15%

The percentage points required for each grade letter is:

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<thead>
<tr>
<th>Grade Letter</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>≥ 90%</td>
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<tr>
<td>B</td>
<td>80%–89%</td>
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<tr>
<td>C</td>
<td>70%–79%</td>
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<tr>
<td>D</td>
<td>60%–69%</td>
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<tr>
<td>F</td>
<td>&lt; 60%</td>
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</tbody>
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Academic integrity:

Plagiarism, copying from others on tests, use of unauthorized materials on tests and quizzes (cheat sheets, electronic devices with text-messaging capabilities such as computers, cell phones etc.) or any other form of academic misconduct is strictly prohibited.

• Penalties for academic misconduct are described in the UCA Student Handbook-2005–2006

• Penalties range from grade reduction to expulsion from UCA.

University policies

Students are expected to be familiar with the general policies of the University and are encouraged to read the UCA Student Handbook-2005–2006. Pay particular attention to the following policies:


Classroom etiquette:

- To ensure that you get the most out of this course it is important that efficient use be made of class and laboratory time.

- Students are strongly advised to refrain from all activities that may be perceived as disruptive by the instructor. Failure to do so will result in the student being dropped from the course with a WF grade.

- Some activities that are a definite “no-no” in this course are:
  1. Using cell phones in the lecture room and the laboratory.
     - Cell phones should be out of sight and switched off once the instructor enters the classroom and should remain so till the student or the instructor leaves the classroom.
     - Under no circumstances will cell phones be allowed during exams. In particular, you will not be allowed to use the calculator on your cell phone during an exam or lab quiz. You must bring a calculator.
  2. Putting your books away and packing your bags while the class is still in session.
     - Avoid it!! It is very, very distracting and disruptive.
  3. Entering the laboratory or lecture room after the instructor has begun teaching, or leaving before the end of the class period while the instructor is still teaching.
     - Get to class on time! You may enter the classroom within five minutes after class begins and occasionally (once or twice a semester) within ten minutes after class begins. But do not enter the classroom more than ten minutes after the beginning of class!
     - Once you enter the classroom, be prepared to stay the entire class period. Leaving the classroom while the class is in session is very disruptive and must be avoided. If, due to an emergency, you have to leave early, inform the instructor in advance or talk to the instructor immediately after class.
  4. Chatting or laughing in class. As much as possible, avoid conversations not related or relevant to what is being discussed in the classroom.

Americans with disabilities

The University of Central Arkansas adheres to the requirements of the Americans with Disabilities Act. If you need an accommodation under this Act due to a disability, please contact the UCA Office of Disability Services, 450 3135. In addition, please make every attempt to meet with me during the first week of classes to make suitable arrangements.