Syllabus – College Physics- PHYS 151
Summer 2017

Instructor: Dr. Dave Bennum
Office Phone: 784-6128
Office: LP 312
Home No.: 323-4390
E-mail: daveb@physics.unr.edu or dbennum1@sbcglobal.net
Office Hours: TBA

WebAssign: https://www.webassign.net/login.html
Class Key: unr 7356 8890 (enter unr in first box, then the numbers in the following 2 boxes 4 numeral each box). When you login after registration be sure you enter unr as institutional code. You may choose your own preference as user name and password. Student id is not required. The cost of the registration is $94 for single term, $125 dollars for lifetime use in any course using this textbook. If you purchase a new text be sure it includes the webassign codes for webassign (Cengage) registration! There is an e-book included so you may elect not to buy the printed edition or may elect another text as reference. There are many older editions of Serway that would be good reference. You must however, use webassign for all homework submissions and the grade book will be maintained on the webassign site. If you do purchase the full textbook you should try to get one which includes webassign registration codes/coupons.

Text: College Physics, 10th Edition
Author: Raymond A. Serway and Vuille

Course Description: PHYS 151. This course covers the subjects of kinematics, motion in 2 and 3 dimensions, conservation of energy and momentum, gravity, heat and sound.
Prerequisites: Math 128.

Methodology: Class discussion and participation will enhance the learning environment and will be important ingredients in our class. We will use a variety of methods to introduce concepts including group work and discussion as well as more traditional methods. The web-assign component that is packaged with your textbook or available for online purchase will be an important contribution to both learning and total score. We will use it to compliment the learning in our class with homework assignments done and graded online for immediate feedback. Most importantly please ask questions when something isn’t clear and especially if you find your curiosity has been peaked! Be willing to actively participate – volunteer a different explanation or point of view, ask a question, but please don’t exclude yourself from the learning process.

Student Learning Objectives: (SLOs)

1. The student will demonstrate problem solving skills in various types of problems in physics using quantitative reasoning, critical thinking and appropriate mathematical techniques.
2. The student will demonstrate the ability to use scientific methods to understand and explain concepts in physics.
3. The student will be able to connect physics concepts and problems to their world experience.
Requirements:

1. **Exams:** There will be 2 regular exams and 2-3 quizzes/week.  
   *NOTE:* The exams will be primarily problems. **Always show all your work** and include proper units.

2. **Homework & Quizzes:** Homework will be assigned each chapter. It is extremely important to work through each assigned problem, as it is impossible to learn physics without **doing** physics. Approach homework problems with the intent to understand each step and **why** you are doing it so you can apply the problem solving strategies to other problems. This homework will be done and graded online. It is your responsibility to make sure you know when the assignments are due. There will be quizzes most days. These quizzes will be based on the assigned homework and lecture presentations and may be conceptual or problem solving. The quizzes will usually be multiple choice and usually worked in group setting, whereas tests will require that work be shown and of course are individually worked, but the level of problems will generally be similar in difficulty. There are **NO makeup quizzes, please don’t ask!** A total of 100 points for quizzes and 100 points for homework will be included in your final grade. Several of both will be discarded with only the higher scores retained.

3. **Attendance:** It is expected that you attend all classes **and that you prepare by reading chapter material.** If you must miss a class it is your responsibility to get all assignments and to know the material covered – **note that missed quizzes are forfeited.** Please don’t hesitate to call or email me for the information, however, I encourage you to get to know two to three of your classmates and exchange phone numbers or email addresses.

**GRADING:**

- Exams: 300pts
- Quizzes: 100pts
- Homework: 100pts
- Lab 100 pts.(if applicable)
- Total possible points: 600

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\begin{align*}
A &= 600-540 \\
B &= 539-480 \\
C &= 479-390 \\
D &= 389-300 \\
F &= 299 \text{ and below}
\end{align*}
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Grade divisions (or other adjustments may be lowered (curved)) to reflect class performance
**Course Outline:** The most important thing you can do to be prepared for all classes is to keep up with the reading and homework assignments. The assigned homework is considered the bare minimum you should do. I encourage you to work through as many extra problems as you can, especially in chapters you find more difficult.

- **Week 1** - Chapters 1, 2, 3, 4
- **Week 2** - Chapters 4, 5, 6
- **Week 3** - Chapter 7, 8 Exam 1, June 29
- **Week 4** - Chapter 9, 10, 12
- **Week 5** - Chapter 13, 14 Exam 2, July 13

**Note:** This is a tentative outline of what we will cover, we may spend more or less time on a particular topic. Exams will cover what we have discussed and worked on regardless of the above timetable.

**ADA Statement:** Qualified students with physical or documented learning disabilities have the right to free accommodations to ensure equal access to educational opportunities at the University of Nevada, Reno. For assistance and clarification of services provided under ADA, contact the Disabled Student Services Office.

**Academic Integrity:** All examinations, homework, and quizzes must be completed by the student; *any act* of plagiarism (cheating, piracy, theft, etc.) may result in immediate suspension from the course and possible University sanctions.