

Mechanics - Phys 114- Fall 15 -Three Rivers Community College

Professor Scanlon

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Text: Wilson, Buffa, Lou – College Physics – Seventh Edition – Prentice Hall

Content:

Measurement and Problem Solving - Chapter 1

Kinematics - Chapter 2

Motion in Two Dimensions - Chapter 3

Force and Motion - Chapter 4

Work and Energy - Chapter 5

Linear Momentum and Collisions - Chapter 6

Circular Motion and Gravitation - Chapter 7

Rotational Motion and Equilibrium - Chapter 8

Grading – Tests and quizzes 55%, lab 25%, final exam 20%

Tests every month, quizzes and homework every class.

Final exam on Dec 15<sup>th</sup>.

Expectations – Homework completed to the best of your ability. Work is legible, supported (show work – not just answers) and on time. Pay attention, take accurate notes and ask questions. All students are to maintain a learning portfolio in Digication that uses the (Three Rivers) College Template.

Lab – Lab work is integral to this course! You must **PASS** the lab portion of the course in order to receive credit. If you fail lab then you fail the course. Lab is held every week. Lab reports are due the following week. A lab report that is one week late is marked down one letter grade. Lab reports late two weeks marked down three letter grades. Labs more than two weeks late will not be accepted.

Lab reports – at a minimum need to show the following:

1. Show all data.
2. Do a sample calculation.
3. Answer questions. Use full sentences.
4. Conclusion. The conclusion is the most important part of the lab report. There should be a good discussion on the experiment, but don't rehash what you did in the lab. What can you conclude from the results? Really think about the lab. Show that you learned something. These are questions/statements you should address in your conclusion:
  - a. Does theory match experiment?
  - b. Examine and explain error.
  - c. Describe any problems.
  - d. Suggest any improvements. (What would you do differently if you had to repeat the experiment?)