

## Expectations and Guidelines

This is the 2nd course of Introductory Physics series PHY2061/2062. This series is for students who major physics or physics related area. This is not for those who take physics as requirements. Therefore, the level of this course is expected to be higher than PHY2049 and 2054. Students should also expect more rigorous mathematical discussions in this course.

1. Develop mathematical skills that will be used in this course and the higher level courses in the future.
2. Develop important physics ideas beyond the simple knowledge of physics.
3. Build habit to succeed:
  - Do not try to memorize everything (only a few things to memorize in physics).
  - Always try to ask yourself physical meaning of equations or results.
  - Know the limits of validity of a model and/or an equation.
  - Check if your answer makes sense in the dimension and the order of magnitude.
4. Read the textbook preferably before the class.
5. Attend lectures and **record your own notes**, although lecture notes will be posted.
6. Do your HW and finish your calculations.
7. Use the office hours wisely. I am here to make you succeed not to grade you out.
8. I stress that in a mathematical expression both sides of equality sign should have
  - the same type of physical quantities (scalar, vector)
  - the same physical dimension (energy, time, mass, length ...)

You cannot have one side a scalar quantity but on the other side a vector quantity. You will get a deduction for this in all exams.