

### **Learning goals of Phys 0091 Course – Conceptual Physics**

1. Develop logical reasoning skills, explain or predict diverse phenomena in everyday experience, and become independent thinkers.
2. Demonstrate conceptual understanding of the concepts, principles and laws of physics covered in this course.
3. Describe a physical situation, as necessary, using multiple representations such as written conceptual statements, mathematical equations, diagrams, and graphs, and be able to translate from one representation to another.
4. Perform a conceptual analysis of a problem and identify physical principles required for its solution.
5. Translate physical principles to formulate necessary mathematical statements required to solve a problem.
6. The course is aimed for non-science majors and for students from the School of Health and Rehabilitation Sciences. It will not be adequate for those students who plan to apply to Medical School, but it could be used to achieve an excellent preparation prior to tackling the more mathematically rigorous PHYS 0110 or 0174.