Miami-Dade Community College PHY 2048L

<u>Course Description</u>: _ The physics labs are separate 1-credit courses designed to be taken in conjunction with a physics lecture. A separate experiment is performed each week with topics chosen to correspond with the material being studied in the lecture.

Corequisites: The corresponding physics lecture.

<u>Course Competencies</u>:

Competency 1:	The student will demonstrate an ability to make measurements in the laboratory by:
	a. using various instruments to make measurements which relate to the functioning of simple physical systems in the laboratory;b. organizing and recording instrument readings onto a data sheet for each experiment in the lab;c. estimating and recording the possible measuring errors with selected measurements in the lab.
Competency 2:	The Student will demonstrate knowledge of the rudiments of laboratory report writing by submitting completed written reports which reflect:
	 a. an organized presentation of materials; b. calculations correctly done; c. graphs correctly plotted with calculations of slopes when needed; d. in selected labs, calculations which indicate how measuring errors can effect the results of an experiment; e. interpretations of results which are consistent with reported observations.
Competency 3:	The Student will demonstrate an awareness of the importance of observations and measurements as the basis for scientific theory by;
	a. reporting his actual observations even if they conflict with his preconceptions;b. when called for, proposing a formula or simple generalization which applies to the measurements made;