Miami Dade College MET 1010L Introduction to Weather Laboratory

<u>Course Description</u>: An elective laboratory to accompany MET 1010. An investigation through experimentation of fundamental meteorological problems. Map analysis, temperature and humidity experiments. Pre/corequisite: MET 1010. Laboratory fee. (2hr. lab)

Course Competencies:

Competency 1:	 The student will demonstrate an ability to make measurements of weath variables in the laboratory by: a. using various instruments to make measurements of weather variable such as: temperature, humidity, atmospheric pressure, wind speed a direction; 		
	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;		
	d. calculations which indicate how measuring errors can effect the results of an experiment;		
	e. interpretations of results which are consistent with reported observations;		
	f. interpretation of a weather map.		
Competency 3:	The Student will demonstrate an awareness of the importance of		
1 5	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.		

Competency 4:	The student will demonstrate a	an ability to use th	e scientific method by:
Competency +.	The student will demonstrate a	an ability to use in	c scientific method by

- a. making observations and drawing conclusions reflecting his/hers actual observations even if they conflict with his/hers preconceptions;
- b. hypothesizing by predicting an outcome;
- c. appreciating the experimental nature of science;
- d. discussing the impact of weather on human activities.