Miami Dade College

Course Description

MET1010L | Introduction to Weather Laboratory | 1.00 credit

An elective laboratory to accompany MET1010. An investigation through experimentation of fundamental meteorological problems. Map analysis, temperature, and humidity experiments. Pre/corequisite: MET1010. Laboratory fee.

Course Competencies:

Competency 1: The student will apply map analysis techniques by:
1. Interpreting and analyzing meteorological maps to identify weather patterns and systems.
2. Differentiating between various weather phenomena based on map readings.
3. Utilizing map analysis tools to predict and track weather conditions.

Competency 2: The student will conduct temperature experiments by:
1. Collecting and recording temperature data using appropriate measuring instruments.
2. Analyzing temperature variations and trends in different meteorological scenarios.
3. Formulating hypotheses and conducting experiments to investigate the relationship between temperature and other weather variables.

Competency 3: The student will perform humidity experiments by:
1. Measuring and recording humidity levels using specialized equipment.
2. Analyzing the impact of humidity on atmospheric conditions and weather patterns.
3. Designing and conducting experiments to explore the relationship between humidity and other meteorological factors.

Learning Outcomes:
- Use computer and emerging technologies effectively
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Use quantitative analytical skills to evaluate and process numerical data