

**Course:** GRY 135  
**Credit Hours:** 4  
**Prerequisite:** None

**Course Title:** Principles of Weather & Climate  
**Department:** Geography, Geology, & Planning

**CORE-42 Category:** NATURAL SCIENCES - Physical Sciences: Essentials in Physical Sciences with Lab (Meteorology/Atmospheric Sciences)  
**MOTR PHYS 110LAS**      **MOTR Hours:** 4

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*Information submitted by a department representative on 4/30/2021 2:01:24 PM – Compiled by Darren Wienberg, Academic Advising & Transfer Center*

**Typically Offered During:**

Fall Full Semester:	YES	Fall 1 <sup>st</sup> Block:	NO	Fall 2 <sup>nd</sup> Block:	NO
Spring Full Semester:	YES	Spring 1 <sup>st</sup> Block:	NO	Spring 2 <sup>nd</sup> Block:	NO
Summer:	NO				

**Typical Instructional Modality:**

Traditional (seated):	YES	Blended:	NO	Internet:	NO
Online Video:	NO	Web Conference:	NO		

**May Also Count Toward Department Offering:**

Major:	NO	Minor:	NO	Certificate:	YES
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*Please see online published semester class schedule and undergraduate catalog for detailed course offering information.*

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***How do you describe the course to students when they ask “What is this class about?” (Without using the catalog description)?***

This course is designed to introduce students to weather and climate. It examines various components of weather (energy, temperature, moisture, clouds, atmospheric circulation, storm development, and severe weather). It also examines historical facts related to the development of meteorology, and contemporary problems such as climate change.

***Beyond meeting a General Education requirement, what benefits can students realize from choosing this course?***

Climate change is a relevant topic in many fields today. It impacts sectors as varied as agriculture, water resources, industries, economic policies, tourism, etc... On the practical side, students will learn how to make weather predictions using only a few climatic variables such as type of clouds, surface air pressure tendencies and wind direction. Statistical applications on climatic variables are explored in the Lab sessions.

***Other than your major/minor/certificate students, what groups of students could find this course relevant to their degree program or career path?***

Any students doing a major in Science (Biology, Physics, GIS, etc...)

***Catalog Description (Fall 2022 Undergraduate Catalog)***

An introductory survey of the earth's weather and climate. A description of the physical processes of the atmosphere is followed by a survey of the world's varied climatic regions. The laboratory involves the preparation and interpretation of meteorological data and the classification of climates.