COURSE IMPLEMENTATION DATE: Fall 1994
COURSE REVISED IMPLEMENTATION DATE: April 2005
COURSE TO BE REVIEWED: April 2009
(Four years after implementation date) (MONTH YEAR)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
Shaded headings are subject to change at the discretion of the department and the material will vary - see course syllabus available from instructor

FACULTY/DEPARTMENT: **Geography Department**

GEOG 201		**4**
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS

Introduction to Climatology
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

This course is a survey course in introductory climatology. Lecture topics range from the micro-scale (air pollution), to meso-scale (urban heat island), to synoptic-scale (tropical cyclones), and global-scale (climatic change).

PREREQUISITES: **GEOG 101**
COREQUISITES:

SYNONYMOUS COURSE(S)
(a) Replaces: _____ *(Course #)*
(b) Cannot take: _____ *(Course #)* for further credit.

SERVICE COURSE TO: _____ *(Department/Program)* _____ *(Department/Program)*

TOTAL HOURS PER TERM: **75**
STRUCTURE OF HOURS:

Lectures:	**45**	Hrs
Seminar:		Hrs
Laboratory:	**30**	Hrs
Field Experience:		Hrs
Student Directed Learning:		Hrs
Other (Specify):		Hrs

TRAINING DAY-BASED INSTRUCTION
LENGTH OF COURSE: _____
HOURS PER DAY: _____

MAXIMUM ENROLLMENT: **25**
EXPECTED FREQUENCY OF COURSE OFFERINGS: **Once per year**

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	☒ Yes	☐ No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	☐ Yes	☒ No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	☒ Yes	☐ No

AUTHORIZATION SIGNATURES:

Course Designer(s): Steven Marsh
Chairperson: Raymond Welch *(Curriculum Committee)*
Department Head: Dr. Sandy Vanderburgh
Dean: Dr. Virginia Cooke
PAC Approval in Principle Date:
PAC Final Approval Date: April 29, 2005

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

Students will:
1) be introduced to the basic scientific principles that modern climatology is based upon and physical, dynamic, and applied climatology at all spatial scales,
2) be able to demonstrate an understanding of basic atmospheric radiation theory and application to microclimate modification, thermodynamics and moisture, precipitation processes, atmospheric motion, frontal theory, general circulation of the atmosphere, tropical climatology, and global climate change.

METHODS:

The format of the course will typically include lectures, assigned readings, laboratory sessions and assignments, discussion groups, oral presentations, field trips, and guest speakers. Lecture topics will emphasize conceptual and theoritical issues and will be supplemented by the use of audio visual aids throughout the course. Laboratory assignments will emphasize advanced techniques in the analysis and interpretation of meteorological and climatological data.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check:) ☒ Yes ☐ No

METHODS OF OBTAINING PLAR:

Challenge exams and/or portfolio evaluation.

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Ahrens, C.D., 2003. Meteorology Today. An Introduction to Weather, Climate, and the Environment. 7th Edition. Brooks/Cole: Pacific Grove.

SUPPLIES / MATERIALS:

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

Assignments and reports	40-60%
Exams	40-60%

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

Lecture Topics:

1. Energy and Radiation
2. Energy Balance and Temperature
3. Atmospheric Themodynamics and Humidity
4. Clouds and Precipitation
5. Atmospheric Statics and Dynamics
6. Global Wind Systems
7. Air Masses and Fronts
8. Middle Latitude Cyclones
9. Global Climate
10. Severe Weather
11. Urban Heat Island
12. Climate Change