

COURSE IMPLEMENTATION DATE: Fall 1992  
 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	
<b>GEOG 101</b>		<b>4</b>
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
	<b>Weather and Climate</b>	
COURSE DESCRIPTIVE TITLE		

**CALENDAR DESCRIPTION:**

This course introduces the fields of meteorology and climatology. Emphasis is placed on atmospheric processes, weather analysis, local and global climates, and on the relationships of these topics to a variety of environmental issues.

PREREQUISITES: **None**  
 COREQUISITES: **None**

SYNONYMOUS COURSE(S)	<b>SERVICE COURSE TO:</b>
(a) Replaces: _____ (Course #)	_____
(b) Cannot take: _____ for further credit. (Course #)	_____

TOTAL HOURS PER TERM:	<b>75</b>	TRAINING DAY-BASED INSTRUCTION
<b>STRUCTURE OF HOURS:</b>		LENGTH OF COURSE: _____
Lectures: <b>45</b> Hrs		HOURS PER DAY: _____
Seminar: _____ Hrs		
Laboratory: <b>24</b> Hrs		
Field Experience: <b>6</b> Hrs		
Student Directed Learning: _____ Hrs		
Other (Specify): _____ Hrs		

MAXIMUM ENROLLMENT:	<b>25</b>
EXPECTED FREQUENCY OF COURSE OFFERINGS:	<b>Once per semester</b>
<b>WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**AUTHORIZATION SIGNATURES:**

Course Designer(s): _____ Steven Marsh	Chairperson: _____ Raymond Welch ( <i>Curriculum Committee</i> )
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 able to understand the processes operating in the atmosphere which are responsible for the various weather patterns found on the earth, and particularly across Canada.
- 2) be able to understand and read and interpret weather maps.
- 3) be aware of the complex interactions between weather, climate and humans.
- 4) be acquainted with the findings and objectives of some contemporary research topics in climatology.

**METHODS:**

The format of the course includes lectures, assigned readings, discussion groups, laboratory assignments, research reports, field trips, and guest speakers. Throughout the course audio-visual techniques and materials will be used to support the lecture material. Laboratory exercises are designed to supplement the lecture and discussion materials. These will deal with the more practical aspects of the course, specifically weather and climate observation, measurement and interpretation.

**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:]

Christopherson, R.W., 2003. Geosystems. An Introduction to Physical Geography Fifth Edition. Upper Saddle River: Pearson Education.

**SUPPLIES / MATERIALS:**

**STUDENT EVALUATION:**

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

Laboratory Assignments, Quizzes, Reports	40-60%
Exams	40-60%

**COURSE CONTENT:**

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

Lecture Topics:

1. Solar Energy
2. Energy Balance
3. Origin of the Atmosphere
4. Temperature Variations
5. Air Pressure
6. Winds and Circulation
7. Air Pollution
8. Clouds
9. Humidity and Adiabatic Processes
10. Precipitation Processes
11. Air Masses and Fronts
12. Midlatitude Cyclones
13. Severe Weather
14. Climate Change