



COURSE IMPLEMENTATION DATE: Fall 1992
 COURSE REVISED IMPLEMENTATION DATE: September 2010
 COURSE TO BE REVIEWED: January 2014
(four years after UPAC approval) *(month, year)*

OFFICIAL UNDERGRADUATE 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 – see course syllabus available from instructor

GEOG 101	Geography	4
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
Weather and Climate		
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:
 PRE or COREQUISITES:

SYNONYMOUS COURSE(S):

- (a) Replaces: _____
- (b) Cross-listed with: _____
- (c) Cannot take: _____ for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 75

STRUCTURE OF HOURS:

Lectures: 45 Hrs
 Seminar: _____ Hrs
 Laboratory: 24 Hrs
 Field experience: 6 Hrs
 Student directed learning: _____ Hrs
 Other (specify): _____ Hrs

TRAINING DAY-BASED INSTRUCTION:

Length of course: _____
 Hours per day: _____

OTHER:

Maximum enrolment: 25
 Expected frequency of course offerings: Every semester
(every semester, annually, every other year, etc.)

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

Course designer(s): Steven Marsh

Department Head: Dr. Ken Brealey

Date approved: November 2009

Supporting area consultation (Pre-UPAC)

Date of meeting: November 27, 2009

Curriculum Committee chair: _____

Date approved: January 2010

Dean/Associate VP: Dr. Jacqueline Nolte

Date approved: January 2010

Undergraduate Program Advisory Committee (UPAC) approval

Date of meeting: January 29, 2010

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

1. describe and explain atmospheric processes responsible for the various weather patterns found on the earth, and particularly across Canada;
2. construct, read, and interpret weather maps;
3. analyze complex interactions between weather, climate and humans;
4. demonstrate an acquaintance with the findings and objectives of contemporary research topics in climatology.

METHODS: *(Guest lecturers, presentations, online instruction, field trips, etc.)*

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.

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Examination(s) Portfolio assessment Interview(s)

Other (specify):

PLAR cannot be awarded for this course for the following reason(s):

TEXTBOOKS, REFERENCES, MATERIALS:

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

Christopherson, Robert W. and Mary-Louise Byrne, 2009. Canadian Geosystems Second Edition. Toronto: Pearson Education Canada.

SUPPLIES / MATERIALS:

STUDENT EVALUATION:

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

Laboratory assignments, quizzes, reports	25 - 30%
Laboratory exams	25 - 30%
Lecture exams	40 - 50%

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