

COURSE IMPLEMENTATION DATE: May 2014
 COURSE REVISED IMPLEMENTATION DATE: _____
 COURSE TO BE REVIEWED: May 2020
(six years after UEC 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

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|--------------------------|--------------------|-------------|
| GEOG 103 | Geography | 4 |
| COURSE NAME/NUMBER | FACULTY/DEPARTMENT | UFV CREDITS |
| The Physical Environment | | |
| COURSE DESCRIPTIVE TITLE | | |

CALENDAR DESCRIPTION:

This course introduces students to planet Earth, showing how physical processes have shaped the natural environment. Using the tools and approaches of physical geography, the various geosystems, atmosphere, lithosphere, hydrosphere, and biosphere, their internal processes, and external forces are explored. Topics covered will range from turbulence (the shortest and fastest scales) to tectonics (the longest and slowest scales). Impacts of human activities on the natural environment will be discussed.

Note: Students with credit for GEOG 101 or GEOG 102 may not take GEOG 103 for further credit.

PREREQUISITES: None.
 COREQUISITES:
 PRE or COREQUISITES:

SYNONYMOUS COURSE(S):

- (a) Replaces: _____
- (b) Cross-listed with: _____
- (c) Cannot take: **GEOG 101 or GEOG 102** for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 75
STRUCTURE OF HOURS:
 Lectures: 40 Hrs
 Seminar: _____ Hrs
 Laboratory: 25 Hrs
 Field experience: 10 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

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|--|---|
| Course designer(s): <u>Carolyn Atkins, Jonathan Hughes, Steven Marsh</u> | Date approved: <u>October 3, 2013</u> |
| Department Head: <u>Michelle Rhodes</u> | Date of meeting: <u>October 11, 2013</u> |
| Campus-Wide Consultation (CWC) | Date approved: <u>October 18, 2013</u> |
| Curriculum Committee chair: <u>David Fenske</u> | Date approved: <u>October 18, 2013</u> |
| Dean/Associate VP: <u>Lucy Lee (Science)/ Jacqueline Nolte (Arts)</u> | Date of meeting: <u>November 22, 2013</u> |
| Undergraduate Education Committee (UEC) approval | |

LEARNING OUTCOMES:

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

1. Describe the scientific method and its philosophy.
2. Explain how science is used to understand the natural world.
3. Explain how scientific models are useful and objective representations of phenomena in the physical world.
4. Explain the importance of temporal and spatial scales to scientific research.
5. Identify and use appropriate technological tools including maps, GPS, and/or computers in gathering and analyzing geographical data.
6. Describe the physical concepts that govern the dynamics of the physical environment.
7. Describe the impact of human activities on the natural environment.
8. Collect, analyze, and summarize scientific information (written, numeric, and graphic), describing key geographic concepts.

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

The course typically includes lectures, assigned readings, discussion groups, laboratory assignments, field work, field trips, and guest lecturers.

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 might be:]*

One of the following:

- Christopherson, R.W., 2013. *Elemental Geosystems* 7th Edition. Upper Saddle River, NJ: Pearson Ed.
- Smithson, P., Addison, K., Atkinson, K., 2008. *Fundamentals of the Physical Environment* 4th Edition (paperback). Routledge.
- Skinner, B. and B.W. Murck, 2011. *The Blue Planet*, 3rd Edition, Wiley and Sons, Inc.
- Pidwirny, M. and S. Jones, 2010. *Fundamentals of Physical Geography* 2nd Edition, UBC Okanagan.

In addition to:

- Topical Science Papers/ News Articles

SUPPLIES / MATERIALS:

Rite-in-Rain Notebook, Pencil Crayons, Graphing Paper

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

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|----------------------------------|-----|
| Labs (x8): | 10% |
| Lab Project/report/journal: | 20% |
| Lab exam: | 20% |
| Field trip/ class participation: | 10% |
| Midterm exam: | 20% |
| Final exam: | 20% |

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

1. Introduction to Physical Geography
2. Geomatics
3. The Earth Energy System
4. The Atmosphere System
5. The Oceanic Engine
6. Water, Weather, and Climate Systems.
7. Plate Tectonics
8. Earthquakes
9. Volcanism
10. Weather and Mass Movements
11. River, Coastal, and Glacial Systems, and Landforms
12. Soils
13. Ecosystems