



# CAMPBELLVILLE UNIVERSITY

## COURSE SYLLABUS

PLEASE TYPE.

DATE January 19, 2017

ACADEMIC UNIT

Natural Science

FACULTY Ann Harris

☐ Please check to indicate this course has a service learning component.

Discipline	Course# Section	Title of Course	Credit Hours	Cross Reference (if applicable)
GEO	105-01	Introduction to Earth Science	3	

TEXTBOOK



Required



Not Required

Author Thompson & Turk

Title Earth Science and the Environment

Publisher \_\_\_\_\_

Date of Publication \_\_\_\_\_

WORKBOOK

Author \_\_\_\_\_

Title \_\_\_\_\_

Publisher \_\_\_\_\_

Date of Publication \_\_\_\_\_

PLEASE ANSWER THE FOLLOWING QUESTIONS ON A SEPARATE SHEET OF PAPER AND ATTACH TO THIS FORM.

1. DESCRIPTION OF COURSE: Develop a brief description of the course as it will appear in the Catalog.
2. STUDENT LEARNING OBJECTIVES: List the student learning objectives for the course. Please relate these objectives to the mission and goals of the University and the Academic Unit. For general education courses, please indicate which student learning objectives address general education goals and the intended method of assessment. A minimum of four of the seven general education goals must be included.

*Example: Students will demonstrate their ability to compare and contrast two types of basket weaving. (Goal: Oral and Written Communication; Evidence: research paper and class presentation)*

3. COURSE OUTLINE: Outline the topics/units that are to be taught.
4. EVALUATION: How do you plan to determine the grade in the course? Please include grading scale.
5. REQUIREMENTS:
  - a. Examinations: State when tests are to be administered, including unit, mid-term, and final examinations.
  - b. Reports: How many, length required, and what type (Oral, term and/or research, book critiques).
  - c. Supplemental reading assignments or outside work required.
  - d. Supplemental instruction aids: Audio visual aids, field trips, guest speakers, etc.

6. BOOKLIST

DEAN

Date Copy Received \_\_\_\_\_

VICE PRESIDENT FOR ACADEMIC AFFAIRS

Date Copy Received \_\_\_\_\_

# GEO 105 – Introductory Earth Science

Spring 2017

## Course Information

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**Course Meeting:** January 11 – March 11, 2017, 100% Online

**Instructor:** Ann W. Harris

**Email:** [awharris@campbellsville.edu](mailto:awharris@campbellsville.edu)

I will answer all emails within 24-48 hours of receipt.

### Required Textbook

Earth Science and the Environment, 4<sup>th</sup> edition, Thompson and Turk, ISBN-10: 0538451238

### Course Description

The fundamental concepts of geology, meteorology, and astronomy will be studied. General topics will include: origin of the universe, solar system, and earth, the chemical structure and composition of the earth, physical and historical geology, the atmosphere, weather and climate. There are no prerequisites for this course.

## Attendance

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### Campbellsville University's Online Course Attendance Policy

**Bi-term and 8 week terms:** Online students must participate weekly as defined by the professor in the syllabus. After 1 week (12.5%, 1/8th of the scheduled classes) without contact the student will be issued an official warning. After the second week (25%, 1/4th of the scheduled class) without contact the student would fail the course and a WA would be recorded.

This class will have no specific time for online communications. You will be responsible for following the class schedule and having the assignments in on time. I will post assignments and send an email every weekend (Saturday or Sunday) with the upcoming weekly assignments. You will have one week to submit the assignments after they are posted. Weekly assignments will be due on **Sundays, 11:55 p.m.**

## Learning Objectives

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1. Describe and explain the tools and methods scientists use to investigate the properties of the Earth and its resources.
2. Describe the Earth's history and the history of the solar system and universe.
3. Describe the Earth's geological history.
4. Describe the patterns and processes that have shaped the Earth in the past, present, and future.
5. Describe and understand the rock cycle.
6. Distinguish between igneous, sedimentary, and metamorphic rocks and describe the processes that shape and affect each type.
7. Describe the structure of the Earth (i.e. geology, chemical composition of minerals and their characteristics, hydrological features, landforms, lithosphere and biosphere).
8. List the types, abundances, and uses of Earth's natural resources.

9. Understand the events of the Earth's hydrologic cycle.
10. Describe the underlying reasons for Earth's climate, and factors that affect climate change.
11. Describe factors that effect and contribute to weather patterns on Earth.
12. Describe the position and influences on the Earth in the solar system (i.e. sun, moon, planets, asteroids, comets, meteors, etc.)

## Course Outline

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The general topics that we will cover this semester are listed below.

- **Science Basics:** Introduction to Earth Science and scientific method; critical thinking and evaluation of evidence and data; general chemistry: minerals, elements, atomic structure, chemical bonds, etc.
- **Earth's History and Geology:** Minerals, geology (rock cycle, weathering), geologic time, plate tectonics.
- **Earth's Atmosphere, Climate and Weather:** Atmospheric structure and composition; weather (water, pressure and systems), climate.
- **Planetary Systems:** Planets, stars, galaxies and the universe.

## Policy on Academic Integrity

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The purpose of a college education is to expand knowledge, to be exposed to different ideas, and to develop a greater understanding of the world in which you live. It is expected that students will wish to be evaluated on their own performance and not on the performance of others. If, however, a student is found to be cheating in any way, or willingly and knowingly plagiarized the written works of others, severe consequences will follow. These will include failure of the assignment, and may include failure of the course and/or suspension from the school. To avoid this, the instructor reserves the right to move any student, or request that any student retake an exam or redo an assignment.

## Disabilities

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Campbellsville University is committed to reasonable accommodations for students who have documented learning and physical disabilities, as well as medical and emotional conditions. If you have a documented disability or condition of this nature, you may be eligible for disability services. Documentation must be from a licensed professional and current in terms of assessment. Please contact the Director of Disability Services at **270.789.5192** to inquire about services.

### Emergency

In case of university emergencies, please call:

- Office of Campus Security **270.789.5555**
- Local Police and first responders, dial **911**

### General Education Criteria

All General Education courses at Campbellsville University are required to encourage the development of a set of skills that will be invaluable to both its students, both in the classroom and in the job market. In addition to working to ensure that these skills are thoughtfully included in the course design, the goal is to provide measurable evidence of student's performance on each of these areas. This course focuses on three of these criteria, which are listed below along with the devices that will be used to encourage their development.

General Education Criteria	Description of Student Learning Outcomes	Evidence/Measurement
Critical Thinking	Students will demonstrate the ability to think analytically, logically, and scientifically about information.	Comprehension, analysis, evaluation of readings and scenarios to document in research reports, quizzes and exams.
Oral & Written Communication	Students will demonstrate the ability to express ideas, beliefs, and information in an organized, precise, and persuasive manner.	Class discussion and report research.
Social Responsibility & Citizenship	Students will demonstrate an understanding of personal and social responsibility in a changing global environment so that students can make contributions to their respective discipline and to society as a whole.	Preparation and presentation of report research analyses and class discussions on scientific issues to show the student's ability to connect science and real world examples.

## Grade Distribution

The final grade for this course will be based on a **1,150-point scale**. Point allocations are listed below:

4 Exams @ 100 pts. each	400 pts.
5 Reports @ 50 pts. each	250 pts.
12 Homework Assignments @ 20 pts. each	240 pts.
12 Quizzes @ 20 pts. each	240 pts.
Participation/Discussion Board	20 pts.
<b>Total</b>	<b>1,150 pts.</b>

The final letter grade will follow the distribution shown below:

Grade	Percentage Range	Total Points
<b>A</b>	90.00 - 100%	1,035 – 1,150
<b>B</b>	80.00 - 89.99%	920 – 1,034
<b>C</b>	70.00 - 79.99%	805 – 919
<b>D</b>	60.00 - 69.99%	690 – 804
<b>F</b>	0.00 - 59.99%	Below 689

If you have any questions about an assignment, please don't hesitate to contact me. Also, mistakes happen, if you feel a question on a quiz, exam was counted wrong and should not have been, please let me know via email ([awharris@campbellsville.edu](mailto:awharris@campbellsville.edu)) ASAP.

## Exams

This course has a total of four exams worth 100 points each. Exam questions will come from the PowerPoints and textbook chapters.

### Discussion Board/Participation

Please plan to login periodically to complete new assignments and participate in the discussion board activities.

### Reports

There will be five assigned reports (50 pts. each) that will cover a variety of earth science topics. These reports represent **250 points** of your total grade. You will be asked to write a **TWO-page** report on a particular topic and submit the report. Details on the report assignments will be posted later.

### Make-up Policy

Since this a 100% online course, it could be very easy to get behind. If there is some reason that you can't login on a regular basis. Assignments are expected on the due dates stated. Please plan ahead to avoid any unforeseen technical problems. If there is some reason you can't complete an assignment, please make arrangements to make up any missed work. If you miss a deadline please contact the instructor via email ([awharris@campbellsville.edu](mailto:awharris@campbellsville.edu)). It is your **responsibility** to check **e-mails** frequently.

### Title IX Information

Campbellsville University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires all responsible employees, which includes faculty members, to report incidents of sexual misconduct shared by students to the University's Title IX Coordinator.

Title IX Coordinator:

Terry VanMeter

1 University Drive

UPO Box 944

Administration Office 8A

Phone – 270-789-5016

Email: [twvanmeter@campbellsville.edu](mailto:twvanmeter@campbellsville.edu)

Information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence is set forth at: [www.campbellsville.edu/titleIX](http://www.campbellsville.edu/titleIX)

# GEO-105 - Introductory Earth Science

Online Class Schedule - 1<sup>st</sup> Bi Term, Spring 2017

Wk.	Date	Class Topic/Assignment	Read Text Chapter
1	1/11 - 1/15	Ch. 1 Quiz (Earth System); Ch. 2 Homework (Minerals); Ch. 3 Quiz (Rocks); (Report 1 - Rocks)	Chapters 1, 2 & 3
2	1/16 - 1/22	Ch. 4 Homework (Geologic Time: A Story in the Rocks); Report 2 - Geologic Time; Ch. 5 Quiz (Geologic Resources); Ch. 6 Homework (The Active Earth: Plate Tectonics); Exam 1 (Ch. 1, 2, 3, 4, 5 & 6)	Chapters 4, 5 & 6
3	1/23 - 1/29	Ch. 7 Quiz (Earthquakes and the Earth's Structure); Report 3 - Earthquakes; Ch. 8 Homework (Volcanoes and Plutons); Ch. 9 Quiz (Mountains)	Chapters 7, 8 & 9
4	1/30 - 2/5	Ch. 10 Homework (Weathering, Soil, and Erosion); Ch. 11 Quiz (Fresh Water: Streams, Lakes, Ground Water, and Wetlands); Ch. 12 Homework (Water Resources); Exam 2 (Ch. 7, 8, 9, 10, 11 & 12)	Chapters 10, 11 & 12
5	2/6 - 2/12	Ch. 13 Quiz (Glaciers and Ice Ages); Ch. 14 Homework (Deserts and Wind); Ch. 15 Quiz (Ocean Basins); Report 4 (Oceans)	Chapters 13, 14 & 15
6	2/13 - 2/19	Ch. 16 Homework (Oceans and Coastlines); Ch. 17 Quiz (The Atmosphere: Evolution and Composition); Ch. 18 Homework (Energy Balance in the Atmosphere); Exam 3 (Ch. 13, 14, 15, 16, 17 & 18)	Chapters 16, 17 & 18
7	2/20 - 2/26	Ch. 19 Quiz (Moisture, Clouds, and Weather); Ch. 20 Homework (Climate); Ch. 21 Quiz (Climate Change); Report 5 (Global Warming)	Chapters 19, 20 & 21
8	2/27 - 3/11	Ch. 22 Homework (Motions in the Heavens); Ch. 23 Quiz (Planets & Their Moons); Ch. 24 Homework (Stars, Space, and Galaxies); Exam 4 (Ch. 19, 20, 21, 22, 23 & 24)	Chapters 22, 23 & 24

ODD Chapters = Quiz; EVEN Chapters = Homework