**GEOG 1 Course Overview**

**PHYSICAL GEOGRAPHY 1 ONLINE – LANEY COLLEGE – SPRING 2021**

Instructor: Mark J. Rauzon;   mrauzon@peralta.edu <https://sites.google.com/site/laneygeog/rauzon-1>

Office Hours online Mon./Wed. 12:30-1:00 & by appointment

**Course Description:**

This is a general course that introduces the basis elements of the earth’s physical systems and processes; earth-sun relationship, weather, climate, global climate change, earthquakes, plate tectonics, ecosystems and hydrological cycles, and human-environmental interactions on the Earth’s resources.

**10 Course Goals: At the end of the class, you should have these student learning outcomes\*:**

**1\*) Explain how hydrologic and atmospheric processes as well as earth-sun relationships are interconnected between individuals, social forces and environmental factors that change the climate.**

**2\*) Explain the conditions that can cause floods, tornados, earthquakes, landslides, volcanoes, and coastal erosion, and explain their impact on humans.**

**3\*) Analyze the impact of humans on the natural environments and research such local environmental issues as waste management, air pollution, water pollution, and environmental planning.**

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| **4\*) Critically analyze their own individual experiences within the context of historical,****cultural, and environmental phenomena.** |

**5) Understand the geographic grid of latitude and longitude.**

**6) Explain basic atmospheric processes and global circulation patterns of air pressure and winds.**

**7) Understand the factors that influence global temperatures and climate change.**

**8) Explain the basic characteristics of volcanism, earthquakes, and their relation to the theory of plate tectonics.**

**9) Explain how hydrologic, tectonic, erosional, and atmospheric processes as well as earth-sun relationships are interconnected and together shape the physical environment.**

**10) Analyze interrelationships between individuals, social forces and environmental factors of climate change.**

**Required Materials:**

Computer

Recommended Text: Geosystems by Christopherson & Birkeland - Pearson Publishing, 10th edition, 9th, or 8th; available to purchase online.

**Methods:**

Online delivery of lectures and discussions with visual aids, maps, powerpoints, videos and assignments supplementing classtime instruction. I encourage group study and collaboration.

Preparation is Necessary!!!   Show up!!! Take notes!!  Ask questions! Keep up with the chapter readings. The end of the book chapter has a review. Basic geographic concepts covered in previous weeks will be reviewed and questions answered.

**Grading:**Midterm Exam (100 points)                       = 100 points

Final Exam (100 points)                             = 100 points

Four Quizzes                                               = 100 ea. = 400 points averaged together

Homework, participation                           = 20 pt. ea. = 100 points

TOTAL                                                          = 700 Points averaged together

**CLASS RULES**

Quizzes and Assignments must be completed by the assigned dates.

**Laney College does not discriminate on the basis of age, race, religion, color, gender identity, gender expression, sexual orientation, ancestry, citizenship, national origin, military or veteran status, disability, marital status, pregnancy, medical condition, and immigration status.**

PHYSICAL GEOGRAPHY 01   SPRING 2021 SCHEDULE   (**Subject to Change**)

Module               Date                                  Topic                                                  Reading Assignment

1                          Jan. 25           Introduction to Geography-                            LUMIN notes on

                                    Discuss course and grading, Scientific thinking, CANVAS course

                                    geographic principles,                           HOW I GOT TO LANEY - HOMEWORK   DUE Feb. 5

2                           Feb. 01           Location, Latitude & Longitude, Time-          LUMIN notes

                                        Geographic Grid, Time Zones,                                       Map Homework

                                    Projection Distortion, GPS/GIS

3                            Feb. 08            Earth-Sun Relations                                        Ch 2 notes

                                        Solar Angle, Radiation, Seasons                                  Quiz #1

4                             Feb. 15 (holiday)  Feb. 16            Earth’s Modern Atmosphere -         Ch. 3. powerpoint

                                      Air Pollution, Ozone Hole                                                 DVD- Origins

5                              Feb. 22            Energy Balance/Greenhouse Effect              Ch. 4. Powerpoint

                                               Global Temperature Notes                                               Quiz   # 2

6                              Mar. 01           Climate Change, Global Warming                     Before the Flood video review

                                         Climate Change, Global Warming

                                    Oceanic Circulation                                                 Ch. 5 powerpoint

7                              Mar. 08            Hydrosphere-                                                           Weather Journal

8                              Mar. 15                 Weather- Water

9                              Mar. 22            Water Standards                                                  View Videos

                                                          Hydrogen Bonding                                                                        Quiz   #3

10                           Mar. 29           SPRING RECESS      NO CLASS

                                                                                                                                               Take Home Mid-term

11                           Apr. 05            Biomes -Biosphere      Global Climate

12                           Apr. 12           Dynamic  Planet Ecosystems

                                          Earthquakes, Volcanoes                                                        DVD-The EARTH

13                          Apr. 19            Glaciers     - Rivers                                              Story of Stuff video reaction

14                          Apr. 26           Magnetism, Plate Tectonics                                                Quiz #4

15                          May 03           Biosphere      Island Conservation

16                          May 10            Biosphere      Ecology

17                          May 17           Review for Final

18                          May 24          Finals                                                                                ALL WORK DUE

Important Notes

* If you are a student with a disability, please let me know about your needed accommodations immediately. If you are a new student and need evaluation or verification of your needed accommodations, please contact Disability Services and Programs for Students.
	+ [Laney College DSPS](https://laney.edu/dsps/)
	+ [College of Alameda DSPS](https://alameda.peralta.edu/student-service/dsps/)
	+ [Merritt College SAS](https://www.merritt.edu/wp/dsp/)
	+ [Berkeley City College PSSD](https://www.berkeleycitycollege.edu/wp/pssd/)
* Consider using and leveraging other important [student support resources](file:////courses/442/pages/connecting-with-campus-staff-2%3Fmodule_item_id%3D861458).