**PHYSICAL GEOGRAPHY 1 - LANEY COLLEGE - FALL 2019**

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

Office Hours in A275 @ Mon./Wed. 12:30-1:00; Tues./Thur. 12:15-1:00;

& by appointment (ph. 510-464-3278)

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.

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. |

AND

•Understand the geographic grid of latitude and longitude.

•Explain basic atmospheric processes and global circulation patterns of air pressure and winds.

•Understand the factors that influence global temperatures and climate change.

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

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

• Analyze interrelationships between individuals, social forces and environmental factors of climate change.

**Required** **Materials**:

Text: Physical Geography- Custom made book by Christopherson & Pearson Publishing, available at the Laney Bookstore.

**Methods**:

Class meetings will consist of lectures, discussions, field trips and review. Visual aids, maps, slides, power-point, video, guest lecturers and out-of–class assignments will supplement classroom 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 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

Quizzes = 100 points

Term Project = 100 points

## Homework, attendance, participation = 100 points

TOTAL 500 Points

**Grade Levels:**

A= 90-100% or 460-500

B= 80-89% or 320-459

C- 70-79% or 280-319

D= 60-69% or 140-279

F= < 60% or 140 or less

##### CLASS RULES

-**NO CELL PHONES and IPODS will be turned off in class.**

**-NO CALLS or NO TEXT MESSAGING.**

-**NO CHEATING** or **plagiarism (copying)** will result in **ZERO** points.

-Make up exams by prior arrangement only.

-Non-attendance will result in an ‘F’ grade.

-Disruptive students will be asked to leave.

-Once tests are handed in, there are no changes allowed.

-No one may leave the class during the quiz.

-No food or drink in class.

-Class begins promptly on the hour.

**LANEY COLLEGE DOES NOT DESCRIMINATE ON ANY BASIS-**

**Students with disabilities should let me know by week and accommodations required.**

**PHYSICAL GEOGRAPHY** **01** FALL 2019 SCHEDULE (**Subject to Change**)

Week of Topic Assignment

1 Aug. 19 **Introduction** to Geography- Ch. 1. p. 1-15

 Discuss course and grading, climate change,

 geographic principles, systems thinking

2 Aug. 26 **Location**, Latitude & Longitude, Time Ch. 1. p.16-34

Geographic Grid, Time Zones, Map Scale

 Projection Distortion, GPS/GIS

3 Sep. 2  **Atmosphere**-Earth-Sun Relations Ch. 2. p. 35-55

 9/2 = holiday Solar Angle, Radiation, Seasons **Quiz #1**

4 Sep. 09 **Earth’s** Modern Atmosphere - Ch. 3. p. 57-80

 Air Pollution, Ozone Hole

5 Sep. 16 Energy Balance/Greenhouse Effect Ch. 4. Pp.81-110

 View DVD Before the Flood

6 Sep. 23 **Atmospheric Circulation** Ch. 5. pp. 123-140:

Climate Change, Global Warming **Quiz # 2**

 **Oceanic Circulation** Ch. 5 pp.141- 153

7 Set. 30 **Hydrosphere-** Ch. 6 pp. 177-190

 DVD- Planet Earth

8 Oct. 07 **Weather**- Ch.7 p. 191

9 Oct. 14 **Climatic Regions** Ch. 9. Pp. 263

 **Quiz #3**

10 Oct. 21 **Global Climate** Ch. 10, pp: 295—315

 Introduce Student Projects

11 Oct. 28 **Lithosphere** Dynamic Planet, Ch. 11 pp. 333-356

 Magnetism, Plate Tectonics **Take home** **Mid-Term Exam**

 Earthquakes, Volcanoes

12 Nov. 04 **Biosphere** Ecosystems Ch. 12. p. 366-400

 Rivers DVD-The EARTH

13 Nov. 11 **Biosphere** Evolution  GROUP PRESENTATIONS **Quiz #4**

14 Nov. 18 **Biosphere** Conservation

 GROUP PRESENTATIONS

15 Nov. 25 **Biosphere**

 GROUP PRESENTATIONS Thanksgiving on 11/28

16 Dec. 02 Review for Finals ALL WORK DUE

17 Dec. 09 **FINAL EXAMS**

 **09:30 class @ Dec. 11, 8am-10am**

**10:30 class @ Dec. 11, 10am-12pm**

 **1 pm class MW @ Dec. 13, 12pm-2pm**

 **1 pm class TTH @ Dec. 10, 12pm-2pm**