**Geography 105 Introduction to Physical Geography**

**Instructor: Michael S. McGlade, Ph.D.**

Class Location: MOD 107 Class Meets: TR 12:00-1:50

Office: HSS 211 Phone (503) 838-8381

Office Hours: Monday – Thursday 9-10, Tues 11-12 e-mail: mcgladm@mail.wou.edu

Course website: [www.wou.edu/~mcgladm](http://www.wou.edu/~mcgladm)

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This course fulfills part of the LACC requirement in the Geography 105, 106, and 107 series. Please note that these courses can be taken in any order.

Course Description: We will study the various components of the natural environment, including the nature of the physical elements, the process involved in their development, their distribution over the earth, and their basic interrelationships.

Course Outcomes

\* Analyze interrelationships between humans and the environment (Inquiry & Analysis)

\* Students understand natural forces that affect/determine human existence such as climate, water resources, soil fertility, and geo-tectonic forces

\* Students understand climate change impacts, causes, and solutions

\* Students understand sustainability in a geographic framework of cultural, economic, and natural environments

Required Text: Elemental Geosystems (8th Edition). Robert W. Christopherson, Upper Saddle River, New Jersey: Prentice-Hall.

Course Requirements: It is your responsibility to attend lectures and do the assigned readings. Exams will consist primarily of multiple choice and short answer questions. Although the exams will focus somewhat more on lecture material than on the reading, the two are complementary. You should know both the lecture material and the reading. While we will generally use a computer generated outline in class, you should also write down the details of the lecture that are not on the class outlines. When in doubt, write it down! No make-up examinations will be given except in the most unusual of circumstances, and must be arranged prior to the exam being missed.

Pop quizzes (~5 pts. each) may be given without notice. Approximately two worksheets will be assigned. To avoid frustration, please do not attempt to do the worksheets until you have studied the reading and notes that pertain to them. Other practice problems may be made available to assist you in your studying.

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| ACTIVITY | # PTS | GRADING SCALE (%) | |
| Test #1 | 100 | A | 90-100 | |
| Test #2 | 100 | B | 80-89 | |
| Test #3 | 100 | C | 70-79 | |
| Worksheets | 40 | D | 60-69 | |
| Total | 340 | F | <60 | |
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Note: plus and minus grades are awarded for the upper and lower 2 percent of a grade range.

**TENTATIVE SCHEDULE AND READINGS**

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| Dates | Topic(s) | Reading\* |
| January 8, 10 | Introduction, Planet Earth, Earth Sun Relationships | Chapters 1, 2 |
| January 15, 17 | Earth-Sun Relationships (cont.), Composition & Structure of Atmosphere, Atmospheric Radiation & Heat Balance | Chapter 2  Chapter 3 |
| January 22, 24 | Atmospheric Radiation & Heat Balance, Temperatures | Chapter 3 |
| **January 24** | **Worksheet #1 solar altitude due** |  |
| **January 29** | **Exam #1** |  |
| Feb 5, 7, 12 | Global Atmospheric & Ocean Circulation | Chapter 4 |
| Feb 14, 19 | Atmospheric Moisture and the Hydrologic Cycle, Precipitation, Air Masses, Fronts, and Weather Systems | Chapter 5 skip atmospheric stability section |
| **Feb 21** | **Exam #2** |  |
| February 26 | No class, instructor at sustainability conference |  |
| February 28  March 5, 7 | Climate Change  The Dynamic Planet: Earth Structure & Plate Tectonics  How Scientists Date the Earth | Chapter 8, pages 294-303,  Dawkins pdf & questions (online folder) |
| March 12, 14 | Ecosystems & Biomes | Chapters 16, 17  see online notes |
| **Tuesday, March 19**  **10:00 – 11:50** | **Exam #3** | everything since Exam #2 |

\*other reading may be assigned, not to exceed 60 pages.

Any student who feels that she or he may need an accommodation for any type of disability may talk me during office hours the first week of the course and should contact the Office of Disability Services (838-8250v/tty).

Academic dishonesty consists of representing the work of others as your own and/or using notes or other aids during an examination. Students who engage in such actions will receive no credit for the assignment or examination in question and will be subject to University discipline as outlined in the Code of Student Responsibility. If you have further questions, please consult the Social Science Division policy on academic dishonesty and the Code of Student Responsibility.