MASTER SYLLABUS: GL 107

1. Course Information
   College: College of Science and Mathematics
   Department: Geological Sciences
   Course Title: The Earth and Human Affairs
   Course Designation and Number: GL107
   GE Area(s): Area V - Natural Sciences

   Writing Intensive: _X_ Yes __No

   For WI Courses: ___All sections _X_Selected Sections are WI.

   Method(s) of Instruction: _X_Lecture
     ___Discussion
     ___Web-enhanced
     ___Web-only
     ___Other (Explain below.)

   Includes Lab: _X_Yes __No
   Three hours lecture, two hours lab

   Prerequisites: None

2. Objectives

   GE Program Objectives:
   Sharpen critical thinking, problem solving and communication skills.
   Learn about the aesthetic, ethical, moral, social, and cultural dimensions of human experience
   needed for participation in the human community.
   Increase knowledge and understanding of the past, of the world in which we live, and of how both
   past and present have an impact on the future.

   GE Area Five Objectives:
   Area Five courses emphasize scientific inquiry as a way to discover the natural world, and they explore
   fundamental issues of science and technology in human society.

   Course Objectives and GE Learning Outcomes:
   Students learn the importance of Earth’s resources to societal needs, the hazards that some
   geologic processes pose to society, how the hazardous impact can be reduced, and the
   consequence of human actions on our environment.

   Understand the experimental basis of scientific inquiry
   Understand the importance of model building for understanding the natural world
   Understand the theoretical, practical, creative and cultural dimensions of scientific inquiry
   Discuss some of the fundamental theories underlying modern science
   Understand the dynamic interaction between society and the scientific enterprise
   Recognize appropriate ethical uses of knowledge in the natural sciences
For WI Courses: WAC Objectives
To improve students' writing proficiency – their ability to develop ideas and transmit information for an appropriate audience in an organized, coherent fashion while writing with appropriate style and correct grammar, usage, punctuation and spelling.
To encourage students to use writing as a learning tool to explore and structure ideas, to articulate thoughts and questions, and to discover what they know and do not know, thereby empowering students to use writing as a tool of discovery, self-discipline, and thought.
To demonstrate for students the ways in which writing is integral to all disciplines, essential to the learning and conveying of knowledge in all fields.

The Writing Intensive component of this course will encourage students to use writing as a learning tool to explore and structure ideas, to articulate thoughts, and to discover what they know and do not know. This is accomplished by writing a series of short essays on topics relevant to the course and to the individual interests of the student.

3. Suggested Course Materials
Text: Geology and the Environment by Pipkin and Trent, Brooks/Cole Publ.
Lab Manual: The Earth and Human Affairs Laboratory by Wright State University Geological Sciences, Hayden McNeil Publ.
Calculator

4. Suggested Methods of Evaluation
Two midterm exams, a final exam, and weekly laboratory reports.

5. Grading Policy
All GE courses are graded A-F.
WI component is graded Pass/Unsatisfactory. (Include only for WI courses)

6. Suggested Weekly Course Outline Including Typical Assignments
Week 1 Introduction
   Earthquakes
Week 2 Volcanoes
   Soils
Week 3 Mass wasting and subidence
   Review
Week 4 Test
   Water resources
Week 5 Surface water and floods
   Coastal processes
Week 6 Climate change
   Glaciation
   Review
Week 7 Test
   Climate change: desertification
Week 8 Mineral resources
Week 9 Energy resources
Week 10 Waste management
   Review

7. Other
Syllabus distributed to students should employ the format approved by UCAP and must include:
- Instructor name, office hours, and contact information
- Office of Disability Services information
- Information on how grades will be determined
- Attendance policy