EVS 120 Environmental Geology

Course Description: This course introduces the relationship of applied geology to the human environment. An overview of geologic concepts and terminology precedes a study of surface and groundwater hydrogeology. Human responsibility to protect these resources from contamination is emphasized. The geologic aspects of environmental health, land use practices, and resource exploitation are reviewed and related to environmental legislation.

Prerequisites(s): AFL 085 or appropriate placement test score

Corequisite(s): No corequisite

Lecture Hours: 3	Lab Hours: 2	Credit Hours: 4
Lab Fee: 70	Supplemental Fee: 0	Purpose:
☐ Transfer Assurance Guide Course (TAG)	☒ Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: ☒ Web	☒ Hybrid	☒ Classroom
Semesters Offered: ☒ Fall	☒ Spring	☒ Summer

Course Primary Text:

Title: Introduction to Environmental Geology	Edition: Fifth
Author(s): Edward E. Keller	
Publisher: Prentice Hall, 2012	

Supplemental Materials:

Course Outcomes:

1	An ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;
2	An ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge
3	An ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments;
4	An ability to function effectively as a member of a technical team;

5	An understanding of the need for and an ability to engage in self-directed continuing professional development;
6	A commitment to quality, timeliness, and continuous improvement.
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Course Topics:

Week 1	Introduction to Environmental Geology Concepts
Week 2	Internal Structure and Plate Tectonics
Week 3	Minerals and Rocks
Week 4	Mineral Resources
Week 5	Energy Resources
Week 6	Soils and the Environment
Week 7	Global Climate Change
Week 8	Introduction to Natural Hazards
Week 9	Earthquakes and Tsunami
Week 10	Volcanoes
Week 11	Water Resources
Week 12	Rivers and Flooding
Week 13	Water Pollution
Week 14	Slope Processes and Landslides
Week 15	Coastal Erosion

Methods of Evaluation/Assessment

□ Formative: □ Summative

List assessment activities (e.g. quizzes, discussions, essays, research papers, debates, oral presentations, exams):

Exam 1	15%
Exam 2	15%
Exam 3	15%
Lab Assignments/	15%
Lab Practical	15%
Attendance/Participation	10%
Homework	15%

Course Keeper: Jennifer Geiger Date Completed: 4/12/2019