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Course Description from NWIC Catalog  
Covers basic geologic processes and earth cycles. Topics include minerals and rocks, earth history, structures and plate tectonics plus consideration of environmental geology such as rivers and floods, landslides, earthquakes, mining and hydrology. Lab work included

Course Outcomes:

- Identify, explain, and infer the geologic processes involved in forming and changing the landscapes in the Pacific Northwest and the world.
- Explain how geology influences ecology to provide the foundation for ecosystems. Identify and describe at least 5 different local ecosystems.
- Identify and explain the geologic needs for the survival of salmon.
- Describe global plate tectonics. Interpret tectonic processes taking place by observing various global patterns, such as distribution of earthquakes, volcanoes, geochronology, topographic relief.
- Identify igneous, sedimentary, metamorphic rocks that are common to our area and describe their origin. Create a rock collection that illustrates the rock cycle. Explain how rocks can be transformed from one to another given the appropriate geologic process.
- Characterize and explain the nature of geologic events that could affect our lives in the Pacific Northwest, such as earthquakes, tsunamis, volcanic events, floods, landslides, coastal erosion. Be able to teach about one of the hazards outlined in the Lummi Nation Multi-hazard Mitigation Plan.

NWIC Outcomes:

- Written communication: write in a variety of text forms using various credible sources.
- Computer skills: Use the internet for research

Books and Resources:
Lummi Nation Multi-hazard Mitigation Plan, April 2007, Prepared by Water Resources Division, Lummi Natural Resources Department Will be provided
Online resources:
Throughout the quarter you will be using websites to complete lab assignments.
Several websites to get you started:
Geologic History of the Pacific Northwest – Burke Museum
http://www.washington.edu/burkemuseum/geo_history_wa/index.htm

Rock cycle
http://www.uky.edu/AS/Geology/howell/goodies/elearning/module05swf.swf

http://www.geolor.com/geoteach/Geoteach_Earth_Science_EXTRA_Credit_Page_geolor.htm

Field Trips
Field trips will be scheduled throughout the quarter. Each week we will go outside to
observe and experience geologic processes in action.

Writing Assistance and Tutor Center
Tutors in the new and improved Tutor Center are available for assistance. You will be
required to visit a tutor at least once during the quarter. Please take advantage of this
valuable resource you have available to you.

Classroom Policies
Our class norm is based on RESPECT for ALL!
Cell Phone Policy: Under NO circumstances is a cell phone to ring or be answered during
class. If you must wait for an important call, please wait outside. If your cell phone rings
in class, you will be asked to leave. If you answer your phone in class you will be asked
to leave and you will need to negotiate a plan with the instructor in order to return.

Grading And Evaluation
Your grade for this course will be determined by the completion of minimum
requirements that you determine.

All students will complete their work and produce a portfolio, an organized presentation
notebook that compiles all of your work over the quarter. Other criteria that will be
considered are attendance, class participation, preparedness, work turned in on time.

To Earn a “C-level” Grade (“minimum acceptable”)
Complete successfully ALL of the “C-level requirements, which are:

1. Email your instructor your Assignment #1 Personal Goals for Geology 101.
2. PORTFOLIO. For each topic/Big Idea you will create an entry in your portfolio.
   Each entry will include sketches, diagrams that are well-labeled with the
   appropriate vocabulary. Writings should reflect on your learning and personal
   connection to the previous weeks activities, field trips, and readings. Due every
   Tuesday by the beginning of class.
3. **CLASS PARTICIPATION.** Students will contribute to class discussions on assigned readings and activities.

4. **ASSIGNMENTS AND LAB ACTIVITIES** – Complete all assignments and lab activities satisfactorily

**To Earn a “B-level” Grade (“good”)**
Complete successfully **ALL** of the “B”-level requirements, plus:

5. Choose one hazard as outlined in the Lummi Hazard Mitigation plan. Figure out and create a way to educate your community and loved ones about the hazard so that they will learn about the geologic explanation for the hazard.

**To Earn an “A-level” Grade (“excellent”)**
Complete successfully **ALL** of the “C”-level AND “B” level requirements, plus:

6. For your hazard about, create and deliver an experience for your classmates or the community that teaches them about the hazard that you choose,

**SERVICE LEARNING:**
Service learning will be a component of the course. It is optional and can be used to substitute for portions of the required elements of the course. We will discuss ideas and options in class. We will follow the protocol for service learning as provided by NWIC Center for Service Learning. You can work together or individually. If another course you are taking requires service learning, we will discuss ways to integrate our course content into the project. Suggestions for possible projects:

- Combine your course requirement 5/6 and incorporate components of service to the community that you specifically identify.
- Document environmental change or events from stories or personal experiences, recording for future generations.