ABSTRACT
A rewarding aspect of teaching at Eastern Washington University (Cheney, WA) is to offer a field component to the spring quarter upper level geology classes as well as longer summer session field experiences. During the spring quarter, my students are required to take detailed field notes and digital photographs of localities to produce a field photo journal of the one or two day trip. The one-week to ten-day summer field course (co-taught by Buchanan, GEOL and O’Quinn, BIOL) requirements include keeping a field notebook and journal, answering a series of pre-trip and post-trip questions, and writing a research paper on a topic of interest related to the field trip. I have recently produced and published resources for a number of field trips in the Pacific Northwest for the Field Trip Collection compiled by the NAGT including the North Cascades, Columbia River Gorge and Oregon Coast, Mt. Rainier and Mt. St. Helens, the Olympic Peninsula, the Snake River Plain and Yellowstone, and Crater Lake and Newberry Volcanoes. I have also led a field trip to the Big Island of Hawaii (2008) as part of GSA Geoventures and will do so again immediately following the VEPP workshop. This poster will share volcano-related trips.

IGNEOUS AND METAMORPHIC PETROLOGY FIELD TRIP
This two day field trip introduces students to igneous, sedimentary and metamorphic rocks as seen in the field in the southern part of the Washington Cascades between Ellensburg and Leavenworth and in the vicinity of Lake Wenatchee.

VOLCANOLOGY FIELD TRIP
This field trip introduces students to the Columbia River Flood Basalt Province in eastern Washington, including the general characteristics of the flood basalt flows, their dikes and vent systems, and the tectonic evolution of the province.

Trip Assignment
Students in each class prepare a field trip report (a photo-journal) which is graded on the quality and detail of field observations, geological “correctness” and writing style. Examples of submissions from my Spring 2010 Petrology course are shown below.

SUMMER FIELD COURSES WITH A VOLCANIC THEME
LIVING WITH VOLCANOES - MT. RAINIER AND MT. ST. HELENS
A seven-day field trip to Mt. Rainier National Park and Mt. St. Helens National Volcanic Monument for the purpose of examining the geology and biology of the largest and most active volcanoes, respectively, in Washington State. We will observe the short- and long-term effects of the interplay among volcanic activity, glaciation and recent human activity on the vegetation and wildlife of these two prominent mountains in the Cascade landscape.

BATTLE OF LAVA AND LIFE: CRATER LAKE NATIONAL PARK AND NEWBERRY VOLCANO NATIONAL MONUMENT
The goal of this class is to explore the natural history of the southern part of the Cascade Range in Oregon. We will discuss the complex geologic setting of the range and will focus primarily on volcanic features, geologic history and landscape evolution. Adaptation of organisms to desert, alpine and forest habitats will be investigated, as well as the spatial and temporal factors that influence plant species distribution. We will spend most of our time exploring Crater Lake National Park and Newberry Volcano National Monument during this immersive field experience.

ON THE TRAIL OF THE YELLOWSTONE HOTSPOT – SNAKE RIVER PLAIN, CRATERS OF THE MOON, AND YELLOWSTONE
An eight-day field trip to Hagerman Fossil Beds and Craters of the Moon National Monuments, and Yellowstone National Park, for the purpose of examining the geology and biology of the Snake River Plain in southern Idaho. In this field class we will examine the volcanic geology in the wake of the Yellowstone hot spot as the North American plate moved westward during the last 20 million years. In addition, we will examine the vegetation of this geologically young landscape and discuss how limited soil development, and the long fire intervals, coupled with a semi-arid climate, shape plant communities. The biology of organisms that occupy extreme environments—extremophiles—will also be emphasized in relation to the geothermal features at Yellowstone National Park.

Materials for these and other summer courses are now available in the NAGT Teaching in the Field collection http://www.nagt.org

REFERENCES