

Mary Baldwin College Environment-Based Learning Courses Summer 2016

June 27 - July 1 Trout in the Classroom (ED619)



Trout in the Classroom (TIC) is designed to teach educators about a science-based curriculum developed through the conservation organization Trout Unlimited (TU). In TIC programs, students in grades K-12 raise trout from eggs, monitor tank water quality, engage in stream habitat study, learn to appreciate clean water resources, begin to foster a conservation ethic, and increase ecosystem literacy. Most programs end the year by releasing their trout into a state-approved stream near the school or within a nearby watershed. In the MBC course, educators will learn how to integrate TIC across the curriculum, set-up and maintain the TIC tank, coordinate efforts with local resources, and find

grant and funding options. Field experiences include stream studies, fisheries biology, and land use/watershed issues. Instructor: Dr. Tom Benzing, MBC Adjunct Professor and VA TU Conservation Chair.

July 11 – 15 Natural Research: Plant and Animal Studies in the Outdoors (ED618)

The natural environment presents an excellent setting for student development of scientific investigations. This course provides educators with the skills needed to work with K-12 students as they design and perform their own science experiments related to the living systems of the local environment. During the course, educators will participate in field investigations, research questions, collect and analyze data, and present results and conclusions. Educators will plan curricula for effective inquiry-based instruction by implementing strategies and techniques presented in class. The course addresses learning standards in scientific investigations and the natural sciences. Instructor: Dr. Michael Pelton, MBC Adjunct Professor, Wildlife Science.



July 18 - 22 The Intersection of Life and Land (IN634)



This course is designed to model environmental Project-Based Learning development, design, and implementation. Educators participate in investigations of local issues and problems, focusing on the integrated relationship of environment to people and culture. Explorations include history, geography and cultural connections, related books/articles, and basic ecological & scientific principles needed to conduct a detailed project-based investigation. In this year's course, issues of land use and impacts on the watershed and water quality will focus on food and agriculture, including a study of local farming practices and school-based cafeteria and schoolyard gardening efforts. The course will involve field

trips and experiences for cultural and scientific investigations. The course will also include strategies to help K-12 students identify local problems and develop plans for problem solving and implementation.

Instructor: Dr. Tamra Willis, MBC Associate Professor, Education.

Graduate Credit: Each course is from 9am-4pm daily (except Friday) and extends beyond the week, on-line. Each course provides 3 hours of graduate credit from MBC. The courses may apply toward the M.Ed. degree (EBL) through MBC. A \$50 non-refundable registration fee is required. Courses will be held in Staunton and at various field-experience locations. Housing options are available.

For more information or to register, go to: www.mbc.edu/ebi or contact
Dr. Tamra Willis, College of Education
Mary Baldwin College. 540-887-7135 or twillis@mbc.edu

