



College of Bioassessment

Course Descriptions



Course 1: Concepts of Bioassessment and Program Implementation

Overview

In this 2-day classroom course student will learn about the concepts of bioassessment and how the data is produced, how it is used in water quality monitoring and regulation and how they can integrate bioassessment data into their water resource programs.

Course 2: SWAMP Bioassessment Field Procedures

Overview

This 2-day field course covers all aspects of the SWAMP bioassessment protocol from collecting freshwater invertebrate and algae samples to measuring the physical habitat of wadeable streams. The participants will practice various procedures at the stream site following detailed demonstrations by the instructor.

Course 3: Aquatic Invertebrate Laboratory Procedures and Biological Metrics

Overview

This 2-day laboratory course covers all aspects of freshwater invertebrate taxonomy and biological metric calculations. The participants will identify invertebrates to the family level from six different PSA sites and produce the data for examining site condition. This course will be held in a laboratory facility or classroom using state-of-art microscopes and video projection.

Course 4: Bioassessment Data Analysis and Interpretation

Overview

This 2-day classroom course covers sampling design and data analysis of both ambient and point-source assessments. Excel spreadsheets of taxa lists, biotic metrics and physical habitat elements will be examined by the students to answer a series of questions on data interpretation, quality and variability at actual SWAMP sites. SWAMP templates and data entry/retrieval from the CEDEN database will be presented.