

♦ - in the classroom ♣ - in the field

~ a classroom visit time of 1- 1.5 hours is recommended ~

Due to the nature of BEMP fieldwork, our education team also recommends that those classrooms participating in our monthly monitoring program incorporate our 'in the classroom' programs in the order in which they are listed OR in the manner they best match with your class curriculum.

www.bosqueschool.org/bemp.aspx

- ♦ **BEMP Basics** - an introduction to BEMP and the bigger picture; students learn about ecosystem dynamics, monthly monitoring, equipment and make a map of their UNM field-site
 - ~ *focus on:* groundwater wells, precipitation gauges, leaf-litter fall
 - ~ *appropriate for grades 2-12*

- ♦ **Bosque Botany Bonanza** - discuss the concepts of 'native' and 'exotic' producers, share cuttings of real bosque plants and make a field journal with taping, rubbings & scientific descriptions for future field expeditions
 - ~ **limited to:** summer, fall and late spring for fresh cuttings
 - ~ *focus on:* cottonwood, willow, salt cedar, Russian olive, etc.
 - ~ *appropriate for grades K-12*

- ♦ **River of Change** – students learn how the middle Rio Grande watershed has changed over the last 2000 years with this hands-on **Bosque Education Guide (BEG)** activity
 - ~ *rio bravo:* topography, native plants & animals, historic communities
 - ~ *rio manso:* levees, ditches, jetty jacks, exotic plants & animals, population ↑
 - ~ *rio nuevo:* restoration, management, water resources & citizen science
 - ~ *appropriate for grades 3-12*



- ♦ **Aquifer Model Madness** - learn how water moves on planet earth & methods to conserve it, explore a model of the Rio Grande landscape make a mini aquifer to take home
 - ~ *focus on:* the water web, groundwater/surface water, infiltration & conservation
 - ~ *appropriate for grades 3-12*

- ♦ **Leaf Litter Lab** – we'll provide the equipment (scales & guides included) and your students will sort BEMP collected litterfall by species and biomass
 - ~ weight measurements are essential for processing BEMP data for input into our UNM database
 - ~ *focus on:* plant identification, using scales & data sheet entry
 - ~ *appropriate for grades 4-12*

- ♦ **Fauna of the Floodplain** - engage some of our local bosque animal inhabitants with bio-artifacts like skulls, scat and tracks
 - ~ *focus on:* adaptations, animal classification & diversity
 - ~ *appropriate for grades K-12*

- ◆ **Stormwater Science** - students learn how humans impact the health of the Rio Grande through activities that directly tie us to the surrounding arroyos and watershed
 - ~ *focus on:* changes to our river during storm events
 - ~ *appropriate for grades 4-12*, possible throughout the school year
- ◆ **Dabbling in Data** - discuss monthly monitoring collections & graph data from your BEMP field site, note ecological trends and seasonal changes
 - ~ *focus on:* shallow groundwater table, graphing, comparison of data points
 - ~ *appropriate for grades 4-12*
- ◆ **Creepy Crawly Critters** – students learn about Entomology & phylum *Arthropoda* (bugs!), explore BEMP pitfall traps and insect classification with hands-on lab activities
 - ~ *focus on:* local insect identification, data journaling and sorting
 - ~ *appropriate for grades 2-12*
- ♣ **Bosque BEMP Study-trip** – visit Bosque School in Albuquerque for a BEMP nature hike and discover our bosque up close and personal (limited funding available for bus transportation)
 - ~ *focus on:* evidence of animals, native/exotic plants, BEMP monitoring
 - ~ students should bring a pencil & packed lunch to picnic along the Rio Grande
 - ~ students should dress appropriately for varying seasonal conditions & hiking
 - ~ all participants receive a take home field journal
 - ~ teacher should pick transportation times between 9:00am-2:00pm, however *schedule IS flexible* (group **limit of 30** students per trip)
 - ~ *appropriate for students grades 3-12*



Education & Outreach Scheduling

~ please e-mail or call **Audrey Kruse** to schedule ~

BOSQUE SCHOOL



scholarship • community • integrity

e-mail: audrey.kruse@bosqueschool.org

phone: 505.898.6388 ext. 151

- ◆ **scheduling calendar opens Friday, August 7th – 2015** ◆
- ◆ field trip & classroom activity availability is based on a first come/first serve basis ◆
 - ◆ BEMP has (limited) funding for bus transportation ◆
- ◆ in-class worksheets and Common Core correlations are available upon request ◆

TEACHERS

Need Continuing Education Credits ???

Consider taking **Bio 408/508L**

Bosque Internship at UNM

Offered in Fall, Spring & Summer semesters.

Connect with the science and environmental education of BEMP in the **COLLEGE** classroom!

