



CHESAPEAKE BAY FOUNDATION
Saving a National Treasure

URBAN ECOLOGY AND ENVIRONMENTAL POLICY

Location: aboard the *Snow Goose*, Baltimore Harbor and Havre de Grace, Maryland

Description: Participants address current environmental issues and discuss environmental policy through the use of industry-relevant technologies and techniques. Our field educators work individually with each instructor to design a program that meets their curricular needs.

Aboard the workboat Snow Goose, students access areas near superfund sites, brownfields, waste-water treatment plants and power plants, as well as a variety of local industries. Water quality investigations are complimented by the sampling of benthic, planktonic and other aquatic communities.

Course Concepts: The Urban Ecology and Environmental Policy course specifically addresses the **Next Generation Science Standards**

http://www.nextgenscience.org/search-standards?tid_1%5B%5D=15&=Search for example:

- HS-LS2-6. Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.
- HS-LS2-7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.
- HS-LS4-6. Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity
- HS-ESS3-3. Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.
- HS-ESS3-4. Evaluate or refine a technological solution that reduces impacts of human activities on natural systems

Program accommodates up to 28 passengers (students and chaperones), high school and college level.