

Environmental Science
Class Overview

Patrick Arndt – Berlin High School
12 Weeks Course, 70 Minute Class Periods
(3 x 5 Trimester Block)

- Unit 1: Introduction, Quality of Life, History of Environmental Movement, Tragedy of the Commons, “January” Sand County**
LAB/FIELD: Animal Tracking
- Unit 2: Ecological Foundations, Ecosystems, Biomes, Energy Flow, “February” “March” Sand County**
LAB/FIELD: Amphibians of Wisconsin, Frog and Toad Survey
- Unit 3: Nutrient Cycling, Water Resources, Waste Water, “April, May, June” Sand County**
LAB/FIELD: Greater Prairie Chicken Blinds and Necedah NW Refuge (Waterfowl Field ID), North American Hydro Dam, Fox River and BHS School Pond Water Testing
- Unit 4: Forestry, Forest Measurement and Inventory, Succession, “July, August” Sand County**
LAB/FIELD: Tree ID and School Forest Timber Stand Cruise
- Unit 5: Wildlife, Population Dynamics, Endangered/Threatened Species, Biodiversity Hotspots, “September” “Thinking Like A Mountain” Sand County,**
LAB/FIELD: Reptiles of Wisconsin, Small Mammal Trapping Surveys
- Unit 6: Human Population Growth, Food and Hunger Issues, Sustainability, “October” “Land Ethic” Sand County, Turkey Trouble Activity**
LAB/FIELD: Organic Vegetable Garden at BHS, Composting School Lunch Waste, Worm Composting Boxes, Native Roots Environmental Garden Spring Clean Up
- Unit 7: Air Resources, Air Pollution and Quality, Global Climate Change and Global Warming, “November” Sand County**
LAB/FIELD: Wisconsin Song Bird ID and Bluebird Nesting Boxes
- Unit 8: Soils, Agricultural Methods, Garbage and Waste, “December” Sand County**
LAB/FIELD: Soil Testing, Berlin School Forest High and Low Ropes Course Challenge
- Unit 9: Energy Use and Consumption, Transportation, Renewable Energy**
LAB/FIELD: School and Home Energy Audits, Renewable Energy Field Trip