

DES MOINES AREA COMMUNITY COLLEGE  
 ENVIRONMENTAL CONSERVATION: **BIOL119**  
 FALL 2004

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Text:  
 Experience in Environmental Science, Krumhardt and Wirth. 2ND Edition

Course Description:  
 This laboratory course emphasizes application of the scientific method to environmental issues.

Tentative Schedule:  
 Field trips will be a part of the exploration. As such, you are expected to dress for the conditions so that you are comfortable and are able to fulfill the requirements of the lab work.

Date	Exercise	Topic
June 1	Intro, 1, 2	Introduction, Lab Reports, Safety 15 Trees in the Urban and Suburban Setting
June 6	11	Tap Water Treatment – Field Trip – Des Moines Water Works
June 8	10	Surface Water Analysis – Field Trip - Rock Creek
June 13	12	Waste Water Treatment – Field Trip - Waste Water Reclamation Facility.
June 15	24	Analysis of a Natural Community – Field Trip - Neal Smith National Wildlife Refuge – Prairie City, IA
June 20	17	Solid Waste: Landfill – Field Trip – Metro Waste Authority
June 22	13	Wildlife Diversity – Field Trip – Engeldinger Marsh, Polk County Conservation Board. Naturalist Joel Boyles..
June 27	8	Local, Sustainable Food Systems – Field Trip – TBA
June 29	4	Cemetery Investigation – An Exercise In Simple Statistics. Field Trip – TBA
July 6		FINAL EVALUATION

This lab is based upon experiential education methodology. It is designed to be participatory. Labs cannot be made up if missed. It is difficult to write □  
 Only one late lab will be accepted for the term. Others in the class benefit from your viewpoints and insights. Those who miss only one lab or no labs will get ten points of extra credit.

Grade	Points
A	220-240
B	220-239
C	200-219
D	180-199
F	0-179

Field Trup Directions:

Des Moines Metro Solid Waste: Landfill  
 Travel east on University. Look for a very tall chain link fence on the right side of the highway and active landfill cells. This will be approximately 12 miles beyond the intersection of University and I-235.

Des Moines Water Works  
 South on 9th St. to Grand Ave. Turn right/west on Grand Ave. Travel West on Grand Ave. until you reach Fleur Drive. Turn left/south on Fleur Drive. Water Works Park is on the west or right side of the road. Enter the second gate.

Neal Smith National Wildlife Refuge  
 University Avenue East – past the Landfill.  
 Note the brown sign on the highway that reads, Prairie City/ Neal Smith Wildlife Refuge. Exit at this interchange. Stop at the “stop” sign. Cross the highway and go straight into the refuge. Meet at the Prairie Learning Center.

Waste Water Treatment Plant  
 Travel east on University. At the State Fairgrounds turn right/south on 30th. The four lane road will turn to a 2 lane road. Cross the R.R. tracks. Cargill on the left and the Waste Water Treatment plant will be on the right.

Engeldinger Marsh – I-80 East to Hwy. 65.  
 Take Highway 65 towards Marshalltown.  
 Signs for Engeldinger Marsh will be on your right. Turn right on 118th St. The parking lot is on the right side of the gravel road, just after you cross the abandoned road.