

ESCI 5480/7480 Professional Development Course: Fall 2000
M-W-F (8:00 - 12:05)



The philosophy of this course is to provide experiences that are novel, but serve as an extension to your course work and field experiences in your program of professional development. Following student teaching, the rest of your professional career will involve opportunities for life-long learning. Schools refer to these as Staff Development Units (SDU). The role of this course is to hopefully provide you academically, and in spirit, an introduction to such opportunities. The course will consist of workshops and fieldtrips.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
November						
5	6	7 Sandy Creek Nature Center Project Wet	8 Zoo Atlanta	9 Sapelo Island	10 Sapelo Island	11 Sapelo Island
12 Sapelo Island	13 Athens Water Treatment Plant	14	15 Teacher Evaluation w/ Ms. Marge Schneider	16	17	18
19	20	21	22 - 23 - 24 - 25 Thanksgiving Recess			
26	27 Evaluating & Using Science Textbooks Dr. Michael Padilla	28	29 Fernbank Museum & Linus Pauling	30		
December						
					1 ABB Power T&D Comp	2
3	4 Project Wild	5	6	7 Classes End	8 Reading Day	9

Fieldtrip: Tuesday, November 7, 9:00 - 4:00 pm.



Sandy Creek Nature Center - Project Wet workshop. The purpose of the workshop is to obtain certification to teach units in the project WILD Aquatic activities. Cost is \$15 for the book. Bring a sack lunch.
<http://www.zoe.uga.edu/~pbeck/sandy/SandHome.html>

Fieldtrip: Wednesday, November 8, 9:15 - 3:30 pm.



Zoo Atlanta - Development and Implementation of Fieldtrips Development of Curriculum and Instruction for Informal Settings. An Ethology Study and Creating a Scavenger Hunt at the Zoo Educational Tour with Ms. Deborah Clem (404 - 624 - 5905). Bring or buy your lunch at site.
<http://www.zooatlanta.org/home.html>

Fieldtrip: Thursday, November 9 - Sunday, November 12
 Marine Biology Education. Sapelo Island, Georgia's Coastal Treasure

Arrive: 9 Nov, Thursday on the 5:30pm ferry
 Depart: 12 Nov, Sunday on the 4:00pm ferry



Sapelo Island Reserve ferry dock is located 7.5 miles northeast of Darien, Georgia off Georgia Highway 99. The 65 foot ferry vessel, the Anemarie, is operated by the Georgia Department of Natural Resources. Sapelo Island is the fourth largest barrier island on the Georgia Coast and is one of the most pristine. The Reserve itself encompasses 6,111 acres. The salt marshes are dominated by smooth cordgrass, *Spartina alterniflora*. Approximately 8,700 acres of the Sapelo Island marshes, upland, and tidal creeks are designated as a National Estuarine Research Reserve by NOAA.

<<http://www.uga.edu/egami>> and <<http://www.baruch.sc.edu/SAP/sapelo.html>>

Current flat rate - \$20/person/day, so each person who comes in Thursday and leaves Sunday will owe \$60 for 3 full days. This includes access to vehicles, your housing with equiped kitchens, all linens provided except towels, and classroom or

lab space as needed. At the ferry, DNR will ask for \$1/person/each way. You will need to bring food and such stuff as bug spray and other sundries.

Fieldtrip: Monday, November 13, 9:00 - 11:00 am.



Athens Water Treatment Plant. Fresh water may be our most endangered and critical natural resource. Georgia's current drought and controversy over who gets how much water from the Chattahoochee River make the problem a local concern. Georgia has no natural lakes. Thus, catchment and water quality are important including Athens and the Oconee River. The purpose of our tour is find out how water is prepared and monitored for human consumption.

Workshop: Wednesday, November 15, 8:00 - 12:05 am.



Georgia Teacher Evaluation Program - Evaluation Manual
 Room 213 Aderhold Hall with Ms. Marge Schneider

The purpose of this hands-on workshop is for us to learn about how State documents are used in evaluating your teaching in Georgia classrooms.

Workshop: Monday, November 27, 10:00 - 12:00 noon.



Evaluating & Using Science Textbooks
 Room 215 Aderhold Hall with Dr. Michael Padilla

Textbook adoption and use are a fundamental aspect of teaching. Dr. Padilla has edited and written national textbook series in integrated science. In this workshop, we will learn how to evaluate and use textbooks.

Fieldtrip: Wednesday, November 29, 9:30 am - 2:00 pm. (IMAX)



FERNBANK
 Museum of Natural History



Development of Curriculum and Instruction in Informal Settings

IMAX, Educational Tour, Presentation, Life and Death Under the Pharaohs
 Cost is \$10 for entry to IMAX and Museum.

<http://www.fernbank.edu/museum/index.html>

2:30 - 4:00 pm. Schatten Gallery - Robert W. Woodruff Library

Emory University, 540 Ashbury Street, Atlanta, GA

The Chemistry of Life

Linus Pauling was one of the most influential and controversial figures of the twentieth century. He is the only individual to date to receive two

unshared Nobel Prizes. With a life and career that spanned almost the entire twentieth century, Pauling impacted science, politics, activism, and nutrition. The British journal, *New Scientist* included him in their list of the 20 greatest scientists of all time, along with Galileo, Charles Darwin, Galileo and Isaac Newton. The only other individual selected from the twentieth century was Albert Einstein. <http://www.paulingexhibit.org/>

http://www.paulingexhibit.org/at_tour00/directions.html

Fieldtrip: Friday, December 1, 9:00 am - 11:00 am.



ABB Power T & D Company - ABB is a global \$30-billion engineering and technology company serving customers in electrical power generation, transmission and distribution; automation; and a supplier of measurement and control equipment

and related systems. One site is located in Athens. This experience should provide a link between classroom lessons on electricity, electrons, and transformers with big business. No cameras allowed to protect trade secrets. <http://www.abb.com/>

Workshop: Monday, December 4, 9:00 - 4:00 pm.

Project Wild workshop. Room 215 Aderhold Hall with Bernie Kesser. The purpose of the workshop is to obtain certification to teach units in Project WILD activities. Cost is \$10 for the book.

Course Expectations/Evaluation

Reflective Journal and Portfolio Record (can be applied to ESCI 7650).

Your journal should not only include "field" data but also a post-critique of what you have learned as a teacher including what, how, and why the experiences may or may not have been useful. Your portfolio development might include photographs, relevant publications, teaching activities, etc. I would hope that these documents demonstrate the professional creativity you have rather than conformity, but at a level of excellence such that they may be used as documents of achievement. Must be submitted for review by Monday Noon, December 11.