

WFS 560
Advanced Wetland Ecology
Fall 2005

Instructor: Dr. Matthew Gray (mattjgray@utk.edu)
Phone: 974-2740 (office), 385-0772 (cell)
Office: 247 Ellington Plant Sciences Building
Website: <http://fwf.ag.utk.edu/mgray/wfs560/560home.htm>

Meeting Time & Place: MW 5:45–7:35 p.m., 113 PBB (1 field trip required)

Required Text: Wetlands, 2000, 3rd edition, Wiley (www.wiley.com, ISBN 047129232X)
Authors: William J. Mitsch and James C. Gosselink

Course Goal: To develop an understanding of wetland classification and delineation, wetland communities and processes, human impacts on wetlands, and the management and conservation of wetland communities.

Required Materials: Plant Press and Calculator

Weights of Academic Assessments:

● Final Exam	30%	5 December
● USFWS Classification Exam	20%	19 September
● Wetland Plant Collection	20%	31 October
● Wetland Delineation Assignment	15%	10 October
● Waterfowl K Assignment	15%	16 November

Your course grade will be determined using the following scale:

Grade	Final Weighted Percent		Grade	Final Weighted Percent
A	90–100%		C	70–76%
B+	87–89%		D	60–69%
B	80–86%		F	<60%
C+	77–79%			

ADA Accommodation:

Any student who, because of a disability, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible to make such accommodations as may be necessary.

Religious Holy Day Observance:

A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence IF, not later than the FIFTEENTH day after the first day of the semester (i.e., 09/07/05), the student had notified the instructor of each scheduled class that the student would be absent for a religious holy day.

Tentative Lecture Schedule

Month	Day	Topics	Instructor
August	24	What is a wetland?	Gray
	29	Wetland classification—USFWS Protocol	Gray
	31	Wetland classification—USFWS Protocol	Gray
September	5	<i>No class (Labor Day)</i>	Gray
	7	Wetland Mapping, Delineation Assignment	Gray
	12	Wetland Regulations and Permitting	Eager (TDEC)
	14	Wetland Hydrology	Gray
	19	Wetland Classification Exam	
	21	Nutrient Cycling in Wetlands	Gray
	26	Biological Adaptations	Gray
	28	Wetland Values	Gray
October	3	Wetland Losses & Human Impacts	Gray
	5	Bottomland Sedimentation	Gray
	10	Moist-soil Management	Gray
	12	Wood duck Management	Minser (UT)
	17	<i>No class (SEAFWA Conference)</i>	
	19	<i>No class (SEAFWA Conference)</i>	
	24	GTR Management, Bottomland Restoration	Gray
	26	Invasive Plant Species: Impacts & Control	Oswalt (USFS)
	31	Wetland Impoundment Construction	Gray
November	2	Waterfowl Carrying Capacity Estimation	Gray
	7	Shorebird Conservation and Monitoring	Henry (TVA)
	9	NAWMP and Joint Ventures	Demarest (FWS)
	14	Federal and State Wetland Conservation Programs	Zeman (NRCS) Hopper (TWRA)
	16	EPA Wetland Bioassessment Protocol	Gray
	21	Field Trip to Tennessee NWR¹	Gray
	23	<i>No Class (Thanksgiving)</i>	
	28	Stream Classification	Babbit (TSMP)
	30	Stream Restoration	Babbit (TSMP)
December	5	Final Exam	

¹One overnight field trip to west Tennessee will be required. We will leave at 1:00 p.m. on Sunday, 20 November, stay at the 4-H camp in Milan on Sunday evening, and tour Tennessee National Wildlife Refuge with USFWS personnel on Monday, 21 November. We will return to Knoxville by 8:00 p.m. on Monday. Please make arrangements to be absent from classes and seminar on 21 November.

Extra Percentage Points:

You can increase your final grade as much as **4.5%** by collecting >30 plant species for your collection. Your final grade will be increased by **0.3%** for each additional and correctly identified specimen up to 4.5% (or 15 specimens). At most, 7 of your additional specimens can be woody.