

**WFS 340**  
**Wetlands Ecology and Management**  
**Fall 2014**

**Instructors:** Matthew Gray (*mgray11@utk.edu*) and Chris Graves (*cgraves2@utk.edu*)  
**Phone:** MG: 974-2740 (office), 385-0772 (cell); CG: 828-550-7909  
**Office:** 247 Ellington PSB (MG), 275 Ellington PSB (CG)  
**Website:** <http://fwf.ag.utk.edu/mgray/wfs340/340home.htm>

**Required Readings:** Handed out in class or emailed.

**Recommended Text:** Wetlands, 2007, 4<sup>th</sup> edition (ISBN 978-0-471-69967-5) *or*  
Wetlands, 2000, 3<sup>rd</sup> edition (ISBN 0-471-29232-X)

**Authors:** William J. Mitsch and James G. Gosselink

**Course Goal:** To expose students to the basic principles of wetland ecology and management via class lectures, labs, and field experiences.

**Course Topics:**

- What is a Wetland?
- Wetland Regulations
- Wetland Classification via Cowardin et al. (1979)
- Wetland Waterbird, Amphibian, and Reptile ID
- Wetland Losses and Human Impacts
- Wetland Values (assigned as podcast)
- Wetland Restoration and Conservation Programs
- Wetland Management (agriculture, moist-soil, and green-tree reservoirs)
- Waterfowl Carrying Capacity (duck-energy days, DED) Estimation

**Required Materials:** Field Clothes and Boots, Raingear, Camping Gear, Calculator, Laptop

**Weights of Academic Assessments and Grading Scale:**

The exam, lab practicum, DED assignment, and participation (field trip attendance) will be weighted as follows:

- Exam: 40% (**Tuesday, 18 November 2014** at 7:30 am)
- Lab Practicum: 30% (**Friday, 14 November 2014** at 1:00 pm)
- DED Assignment: 10% (due **Friday, 5 December 2014** by 5:00 pm)
- Management Plan: 10% (due **Friday, 5 December 2014** by 5:00 pm)
- Participation: 10% (see page 2)

Your course grade will be determined using the following straight<sup>1</sup> 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%			

<sup>1</sup>Exam, practicum, and DED assignment will not be curved.

**Attendance:**

Attendance during the Tennessee Amphibian Monitoring Program (TAMP) as well as the 3-day field trip to Noxubee National Wildlife Refuge in Mississippi will count for 10% of your final grade. You must be present during the workshops and participate in all field trip activities to receive 10% (1.5% for each ½ day, and 2% for the TAMP workshop and Lick Creek Field Trip). Attendance at lectures is not mandatory but strongly recommended.

**Tentative Schedule:** 24 Oct, 7–18 Nov, 5 Dec (lecture, labs, and tests)\*  
18–21 November (field trip to Mississippi)\*\*

\*Meeting time is 8:30–12:00 and 1:30–5:00 daily in 156/157 PBB.

Exceptions: Meeting location on 11 and 12 Nov is 115 PSB. The lecture exam starts at 7:30 am in 114 PSB on 18 Nov.

\*\*We will leave Knoxville by 10:00 a.m. on Tuesday, 18 November. The field trip will end at 5:00 p.m. on 21 November.

**3–7 November:**

	Monday	Tuesday	Wed	Thursday	Friday
Morning	<b>WFS 440: Wildlife Techniques</b>				Wetland Definition <i>156/7 PBB</i>
Afternoon					Wetland Classification, Reptile and Waterbird ID <i>156/7 PBB</i>

**10–14 November:**

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Wetland Management (moist-soil management & agriculture) <i>156/7 PBB</i>	Capacity Estimation Lecture <i>115 Ellington PSB</i>	Human Impacts on Wetlands and West TN Wetland Losses <i>115 Ellington</i>	Field Trip to Lick Creek Bottoms Wildlife Management Area	<b>OPEN</b> (Study for Lab Practicum)
Afternoon	Wetland Management (above continued and GTRs) <i>156/7 PBB</i>	Capacity Estimation Assignment & Lab Exercise <i>115 Ellington PSB</i>	Wetland Conservation and Restoration <i>115 Ellington</i>		<b>LAB PRACTICUM</b> (1:00–3:00) <i>156/7 PBB</i>

**17–21 November:**

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Wetland Values Podcast (no class)	<b>LECTURE EXAM</b> *(7:30–9:30) <i>114 PSB</i> <b>Leave for Noxubee</b> (10:00 am)	Noxubee NWR (moist-soil units, GTRs, aquatic plant management)	Meet Drs. Rick Kaminski and Brian Davis MSU Presentations	Leave Noxubee NWR at 9:00 a.m. and return to Knoxville by 5:00 p.m.
Afternoon	<b>OPEN</b> (Study for Lecture Exam)	Visit Briefly with Refuge Staff, Watch Video	Noxubee NWR (non-game management and research)	MSU Entomology Museum & Free Time at Refuge	

**Extra Credit:**

You can positively influence your grade as much as **4.5%** by volunteering for extra credit. Your volunteer work however must be related to wildlife ecology. For every **8 hours** of volunteer work, your final grade will be increased by **1.5%** up to 4.5% (24 hours total). All volunteering must be completed before **05 December 2014**. A volunteer form (see website) must be filled out by the supervising individual and submitted to Dr. Gray.

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**GENERAL POLICIES****Testing Policy:**

Make-up exams and practicums will **not** be given without a *bona fide* written and signed excuse from a vouching authority (e.g., physician, funeral announcement). The telephone number of the vouching individual must be provided with the written explanation. All tests are required.

**Academic Misconduct:** Group learning and studying is encouraged; however, academic misconduct on tests or assignments (including **copying Excel files** used in the duck-energy day assignment) will not be tolerated and result in immediate dismissal from and failure of the course. In the case of copying Excel files, the student that provided the Excel file also will receive an “F” in the course.

**Learning Distractions:** Please turn cell phones on silent prior to class and lab.

**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., 09/05/14), the student had notified the instructor of each scheduled class that the student would be absent for a religious holy day.