WFS 340
Wetlands Ecology and Management
Fall 2011

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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?—USACE Definition  
• Wetland Regulations  
• Wetland Classification via Cowardin et al. (1979)—USFWS Protocol  
• Wetland Plant, Waterfowl, Shorebird, and Amphibian ID  
• Wetland Losses and Human Impacts (assigned as podcast)  
• Wetland Restoration and Construction  
• 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: 50%  (Tuesday, 29 November 2011 at 9:00 am)
• Lab Practicum: 30%  (Friday, 18 November 2011 at 1:30 pm)
• DED Assignment: 10%  (due Tuesday, 29 November 2011 by 5:00 pm)
• Participation: 10%  (see page 2)

Your course grade will be determined using the following straight\(^1\) scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Final Weighted Percent</th>
<th>Grade</th>
<th>Final Weighted Percent</th>
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<tbody>
<tr>
<td>A</td>
<td>90–100%</td>
<td>C</td>
<td>70–76%</td>
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<tr>
<td>B+</td>
<td>87–89%</td>
<td>D</td>
<td>60–69%</td>
</tr>
<tr>
<td>B</td>
<td>80–86%</td>
<td>F</td>
<td>&lt;60%</td>
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<tr>
<td>C+</td>
<td>77–79%</td>
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\(^1\)Exam, practicum, and DED assignment will not be curved.
## Attendance:

Attendance on the 3-day field trip to Noxubee Wildlife Refuge in Mississippi will count for 10% of your final grade. You must participate in all field trip activities to receive 10% (2% deduction for each missed activity). Attendance at lectures is not mandatory but strongly recommended.

## Tentative Schedule:

28 October (TAMP workshop, 12 – 4 pm, 212B Morgan Hall)
14–18, 29 November (lecture, labs, and tests)*
20–23 November (field trip to Mississippi)**

*Meeting time is 8:30–12:00 and 1:30–5:00 daily in 156/157 PBB (14, 16, 18 and 29 Nov) and 114 Ellington PSB (17 Nov)

*Meeting time for Wetland Restoration Workshop is 8:00–12:00 and 1:00–5:00 in Hollingsworth Auditorium (15 Nov)

**We will leave Knoxville by 9:00 a.m. on Sunday, 20 November. The field trip will end at 5:00 p.m. on 23 November.

### 14–18 November:

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<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wed</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>Morning</td>
<td>Wetland Definition, Wetland Classification</td>
<td>Wetland Restoration and Construction Workshop (T. Biebighauser, USFS)</td>
<td>Wetland Management (agriculture &amp; moist-soil management)</td>
<td>Capacity Estimation Lecture</td>
<td>OPEN</td>
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<tr>
<td>Afternoon</td>
<td>Waterbird and Wetland Plant ID; Amphibian ID covered on 28 October</td>
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<td>Wetland Management (green-tree reservoir management)</td>
<td>Capacity Estimation Assignment &amp; Lab Exercise</td>
<td>PRACTICUM (Classification &amp; Waterbird, Amphibian, and Plant ID)</td>
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### 20–25 November:

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<tr>
<th></th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thurs – Friday</th>
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</thead>
<tbody>
<tr>
<td>Morning</td>
<td>Leave for Noxubee (9:00 am)</td>
<td>Noxubee NWR (moist-soil units, GTRs, aquatic plant management)</td>
<td>Meet Drs. Rick Kaminski and Brian Davis MSU Presentations</td>
<td>Leave Noxubee NWR at 10:00 a.m. and return to Knoxville by 5:00 p.m.</td>
<td>Thanksgiving Holiday</td>
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<tr>
<td>Afternoon</td>
<td>Visit Briefly with Refuge Staff, Watch Video</td>
<td>Noxubee NWR (non-game management and research)</td>
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<td>Meet Dr. Steve Demarais MSU Captive Wildlife Facility</td>
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### 28–29 November:

<table>
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<th>Monday</th>
<th>Tuesday</th>
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<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>Morning</td>
<td>OPEN</td>
<td>LECTURE EXAM (9:00–12:00)</td>
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<tr>
<td>Afternoon</td>
<td>Work on DED Assignment; Study for Exam</td>
<td>DED Assignment due by 5:00 p.m.</td>
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Extra Credit:

You can positively influence your grade as much as \textbf{4.5\%} by volunteering for extra credit. Your volunteer work however must be related to wetlands or wetland fauna (e.g., amphibians, waterbirds). For every \textbf{8 hours} of volunteer work, your final grade will be increased by \textbf{1.5\%} up to 4.5\% (24 hours total). All volunteering must be completed before \textbf{08 December 2011}. 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 \textbf{not} be given without a \textit{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 \textbf{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 off pagers and cell phones 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 \textbf{FIFTEENTH} day after the first day of the semester (i.e., 09/01/11), the student had notified the instructor of each scheduled class that the student would be absent for a religious holy day.