

APPLIED WETLANDS ECOLOGY AND MANAGEMENT

FALL 2011

Course Number: WMAN 547; CE 547; PLSC 547

Instructors: Dr. James T. Anderson: 312A Percival; 293-3825; wetland@wvu.edu
Dr. Donald D. Gray: 641a Eng. Sci. 293-9933; gray@cemr.wvu.edu
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Mr. Walter E. Veselka: 307D Percival; 293-3789; walter.veselka@mail.wvu.edu

Meeting Place and Time: 308 Percival Hall
Lecture: 9:30 - 10:45 a.m. T, TH; Labs: See Schedule.

Text: Mitsch, W. J., and J. G. Gosselink. 2007. Wetlands. Fourth edition, John Wiley and Sons, New York, New York (ISBN 978-0-471-69967).

Readings from the text will be assigned in class. Additional readings will be handed out in class or otherwise assigned.

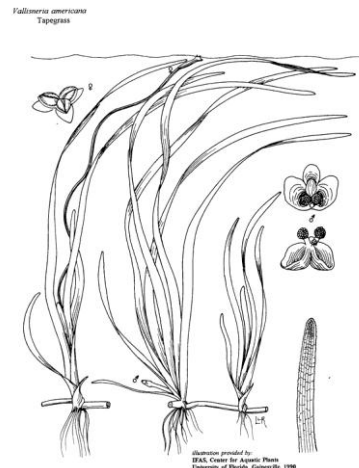
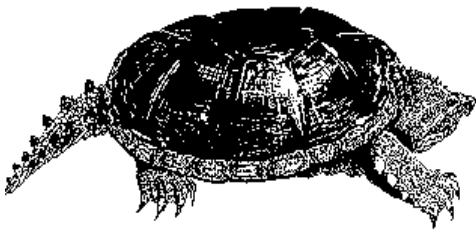
Course

Overview: Wetlands are some of the most imperiled but ecologically important systems in the world. Because wetlands ecology is a complex topic that covers many disciplines, this course is being taught as an interdisciplinary class. We will study the 3 primary factors that define a wetland (vegetation, hydrology, and soils) and discuss wetlands ecology, wetland wildlife management, and wetland laws and regulations.

Course

Objectives:

- (1) To gain an understanding of basic wetland ecology.
- (2) To enhance your understanding of wetland and wetland wildlife management practices.
- (3) To provide you with a background in wetland delineation, mitigation, and restoration.



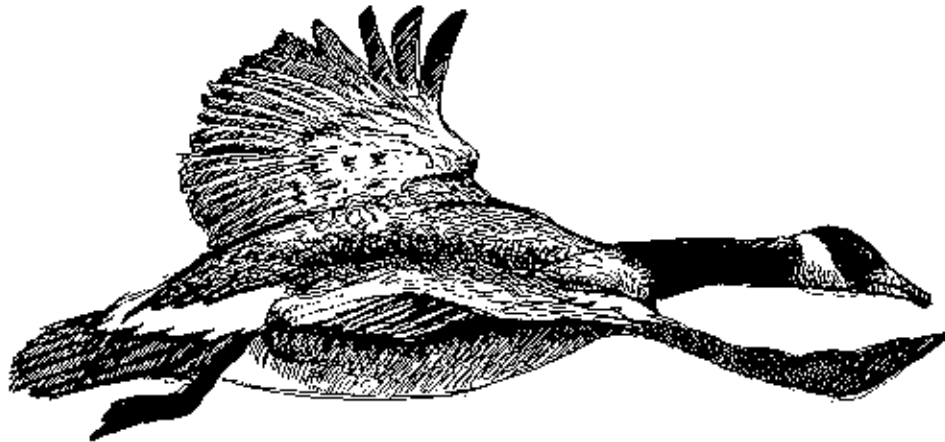
Grading: Grades will be based on 3 lecture exams.

Exams: Three non-comprehensive exams are scheduled. Each exam is worth 100 points. Please see Dr. Anderson if you will be unable to take an exam at the normally scheduled time. **Total Points = 300**

Field Trips: You must attend field trips to pass this class. In the event you cannot attend field trips, you must write additional reports. All transportation and lodging is provided. Students are responsible for their own food. See Dr. Anderson for details.

Grading: Grades are based on the percentage of total points earned.

Letter Grade	Percent		
A	≥ 90	D	60-69
B	80-89	F	≤ 59
C	70-79		



Academic dishonesty (i.e., cheating on exams, plagiarism) will not be tolerated. Please see the Student Handbook for more information.

Tentative Itinerary*

<u>Date</u>	<u>Subject</u>	<u>Reading Assignment</u>
Aug 23	Introduction to Applied Wetlands Ecology and Management (JTA) Chapters 1, 2	
Aug 25	Wetland Status and Trends/Wetland Values and Functions (JTA) Chapters 3, 11	
Aug 25	Wetland Mitigation Field Trip (Barbour, Randolph Co.)—1:00 pm to 7:00 pm (JTA)	
Aug 30	Wetland Classification Systems (JTA)	Chapter 8
Aug 31	Wetland Delineation Lab (Monongalia Co.) —1:00 pm to 5:00 pm (JTA)	
Sep 1	Wetland Delineation (JTA)	
Sep 6	Wetland Vegetation (JTA)	Chapter 6
Sep 8	Wetland Vegetation (JTA)	Chapter 7
Sept. 13	Wetland Soils (JAT)	
Sep 15	Wetland Soils (JAT)	
Sep 20	Wetland Soils (JAT)	Chapter 5
Sep 22	Wetland Soils (JAT)	
Sep 27	Exam 1 (JTA)	
Sep 29	Wetland Hydrology (DDG)	
Oct 4	Wetland Hydrology (DDG)	
Oct 6	Wetland Hydrology (DDG)	Chapter 4
Oct 11	Wetland Hydrology (DDG)	
Oct 13	Wetland Design, Construction, Monitoring (JTA)	Chapters 12, 13
Oct 14	Wetlands Workshop (WV TWS)—7:00 am to 6:00 pm (WEV)	

Oct 18 **Exam 2 (JTA)**

Oct 20 Wetland Laws and Policies (JTA) Chapter 14

Oct 25 Wetland Management for Wildlife (JTA) Chapter 9

Oct 27 Wetlands for Wastewater Treatment (JTA)—Lance Lin

Nov 1 Wetland Rapid Functional Assessment (WEV)

Nov 3 Global Climate Change and Wetlands (JTA) Chapter 10

Nov 4- Nov 7 East Coast Field Trip (Delmarva Peninsula)—(WEV)

Nov 8 NO CLASS

Nov 10 **Exam 3 (JTA)**

Nov 15 NO CLASS

Nov 17 NO CLASS

Nov 22 Thanksgiving Recess NO CLASS

Nov 24 Thanksgiving Recess NO CLASS

Nov 29 NO CLASS

Dec 1 NO CLASS

Dec 6 NO CLASS

Dec 8 NO CLASS

*All times, topics, and subjects are subject to change.

