

WETLANDS ECOLOGY AND MANAGEMENT

May 15–June 2, 2006

Course Number: BIOSC 1220

Instructor: Dr. James T. Anderson (wetland@wvu.edu)

Meeting Time: 9:00 am to 5:00 pm Monday – Friday with some early morning/evening excursions.

Text: Mitsch, W. J., and J. G. Gosselink. 2000. Wetlands. Third edition, John Wiley and Sons, New York, New York (ISBN 0-471-29232-X).

Additional readings will be handed out in class or otherwise assigned.

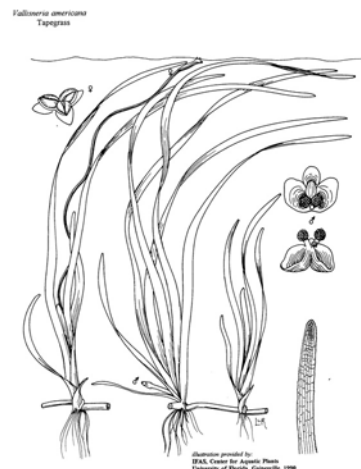
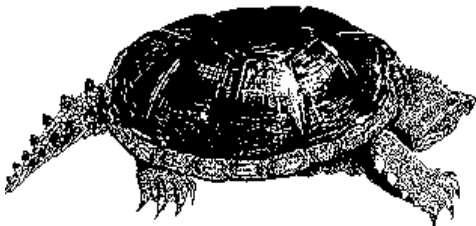
Course

Overview: Wetlands are some of the most imperiled but ecologically important systems in the world. We will study the 3 primary factors that define a wetland (vegetation, hydrology, and soils) and emphasize the applied aspects of wetland science including wetland wildlife management, delineation, mitigation, and restoration.

Course

Objectives:

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



Grading: Grades will be based on 2 exams (50%) and a research project (50%).

Exams: Two exams including a mid-term exam and a non-comprehensive final exam are scheduled. Each exam is worth 100 points.

Total Points = 200

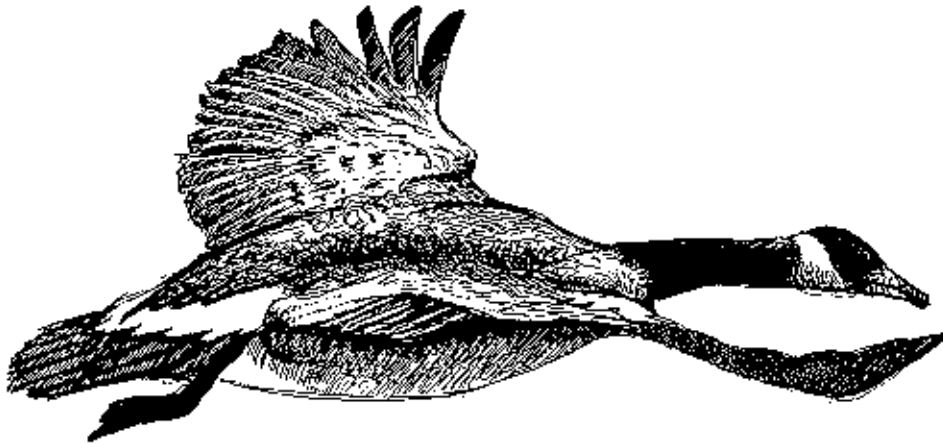
Research Project: A research report following the journal *Wetlands* style guidelines (75%) and a presentation (25%) based on this report will be required of all students. The project can be based on original field-based research (preferred) or can be a review of the literature. You may work by yourself or in groups of 2. I must approve all topics.

Total Points = 200

Attendance: You must make every effort to attend class and field trips. Excessive absences (>3) will result in a loss of 10 points per absence.

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		



If you have a disability for which you require accommodations please contact the Office of Disability Resources and Services at (412) 624-7890.

Academic dishonesty (i.e., cheating on exams, plagiarism) will not be tolerated. A zero grade will be assigned for the work in question.

Daily Schedule:

Most days we will hold lecture and discussion from 9:00 am to 12:00 noon and be in the field from 1:30 pm to 5:00 pm. We also will have at least 1 evening or early morning session each week. It is also likely that we will have 1 or 2 full-day field excursions.

Proposed Topic Outline*

Date	Topic	Reading Assignment
May 15	Wetland Definitions & Types, Classification, Status & Trends	Ch. 1, 2, 4, 21
May 16	Wetland Vegetation	Ch. 7, 8
May 17	Wetland Hydrology	Ch. 5
May 18	Wetland Soils & Biogeochemistry	Ch. 6
May 19	Wetland Values and Functions	Ch. 16
May 22	Wetland Fauna	
May 23	Wetland Management for Wildlife	
May 24	Wetland Delineation	
May 25	Wetland Design and Construction	Ch. 19, 20
May 26	Mid-term Exam & Wetland Assessment/Monitoring Techniques	
May 29	University Holiday	
May 30	Inland Wetlands	Ch. 12, 13
May 31	Coastal Wetlands, Wetland Laws and Regulations	Ch. 9, 18
June 1	Student Presentations	
June 2	Final Exam	

*Topics are subject to change.