

The Swamp School

Wetland Hydrology Design Spring 2008 Syllabus

For more info, please visit our website:

<http://SwampSchool.org>

1 Introduction to Water Budgets

- * Resource Introduction and Water Budgets Video Presentation
- * Quiz Water Budget Quiz
- * Resource Hydrologic Cycle
- * Resource The Hydrologic Cycle

2 Rainfall Runoff

- * Resource Rainfall Runoff Video Presentation
- * Quiz Determine Total Volume of Runoff
- * Quiz Runoff Quiz
- * Resource NOAA National Weather Service
- * Resource USGS Stream Flow Data
- * Resource USGS Surface Water Data
- * Resource SCS TR-55 Java Calculator
- * Resource National Engineering Handbook - Chapter 10
- * Resource NASA Precipitation Data

3 Evapotranspiration

- * Resource Evapotranspiration Video Presentation
- * Quiz PET Quiz
- * Resource USGS Climate Change Website

4 Groundwater

- * Quiz Groundwater Quiz
- * Resource Groundwater Video Presentation
- * Resource USGS Groundwater Data

5 Wetland Design

- * Resource Wetland Design Video Presentation
- * Resource Wetland Water Budget Design Video Presentation
- * Resource NC DWQ Stormwater Design Manual

6 Hydrology and Floodplain Analysis Textbook Assignments

- * Resource Chapter 1
- * Quiz Chapter 1 Quiz
- * Resource Chapter 2
- * Quiz Chapter 2 Quiz
- * Resource Chapter 5
- * Resource Chapter 6
- * Quiz Chapter 6 Quiz
- * Resource Chapter 8
- * Quiz Chapter 8 Quiz
- * Resource Chapter 9
- * Quiz Chapter 9 Quiz

7 Final Exam

- * Quiz Final Exam
- * Wiki Hydrology Wiki
- * Assignment Wetland Water Budget Assignment

Online instructor chat and assignment reviews are also included. The textbook is provided with the class and is entitled:

Hydrology and Floodplain Analysis (4th Edition) by Philip B. Bedient, Wayne C. Huber ,
Baxter E. Vieux