

Fall 2004

**BIO 575 001/200**    **TAXONOMY OF AQUATIC AND WETLAND PLANTS**

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Lecture: Tue. & Thur., 9:30-10:45am **FR 310**

Lab: Thur., 2:00-4:50pm **FR 310**

Office hrs: Tue.: 11-1:00, Thur.: 11-1:00 **FR 126**

Objectives of Class:

- 1) Acquire an adequate vocabulary of taxonomic terms.
- 2) Learn to apply taxonomic keys and field guides for the identification of aquatic and wetland plants.
- 3) Obtain a knowledge and understanding of aquatic and wetland plant families and plant community characteristics.
- 4) Understand fundamentals of nomenclature and basis for plant classification.
- 5) Learn purpose, principles, and fundamentals of wetland classification and delineation.

Texts:            **(A)** Manual of the Vascular Flora of North Carolina, A. E. Radford, H. E. Ahles, and C. R. Bell, Univ. N. Carolina Press.  
**(B)** Plant identification terminology: An illustrated glossary, J. G. Harris, M. W. Harris, Springer Lake.  
Helpful Resource: Field Guide to Coastal Wetland Plants of the Southeastern United States, R. W. Tiner, Univ. Mass. Press

Materials:      Notebook for field site descriptions, plant-habit descriptions and drawings of specimens, Helpful: hand magnifier, pruning shears or knife, garden trowel or spade, plastic zip-loc and garbage bags.

Evaluation:    A=90-100, B=80-89, C=65-79, D=50-64, F=0-49

1.     5%    Lab Practical (1) 25 pts
2.     30%    Herbarium collection (50 different wetland or aquatic species, 25 of which are grasses, sedges or rushes - 3pts each). 150 pts
3.     60%    Lecture Exams (3) 100 pts each.
4.     5%    Class and Lab participation (class discussions, field trips and notes, etc. ) 25 pts

**Herbarium collection:**

- 1) **One species** per sheet.
- 2) Specimen illustrates natural habit, significant structural characteristics, and is aesthetically arranged (no overlapping tissues).
- 3) Data label (**use only labels provided**) must be complete and included with specimen.
- 4) Label must correctly state: a) *Genus species*, Author(s) b) Family, c) Collector's Name, d) Collection Date, and e) Place of Collection f) important characteristics used in identification.
- 5) Your **best** specimens are **due** by the assigned due dates in order to be evaluated.