

## Lecture Topic 1 - Introduction to Plant Systematics

### **I. What is biological systematics?**

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- A. Definition and objectives
- B. Relation to other fields
  - 1. As an umbrella science
  - 2. As a foundational science
- C. Important products
  - 1. Species
  - 2. Checklists, Floras, Manuals, Field Guides
  - 3. Phylogenetics
  - 4. Monographs
  - 5. Encyclopedic Works

### **II. Herbaria**

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- A. Herbarium specimens & important herbaria
- B. Use of specimens
- C. How to make a specimen
  - 1. Collecting
  - 2. Pressing
  - 3. Mounting

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#### **Lecture readings:**

1. Introduction (pp 1-7) of Rhoads & Block. 2007.
2. Prather A, et al. 2004. Implications of the decline in plant collecting for systematic and floristic research. *Systematic Botany* 29 (1): 216-220.
3. Dirig R. 2009. The art of botanical specimen preparation. Bulletin provided by the author.

#### **Lab readings:**

1. Plate 1. Reproductive Terminology (pp 978-979) in Rhoads & Block (2007).
2. Plate 2. Leaf Terminology (pp 980-981) in Rhoads & Block (2007).