

**Topic 03 – Overview of Plant Taxa (Plant Groups to Know in Lecture)**

The classification below is a mix of vernacular (informal, lower-cased) names for higher-level groups along with scientific (formal, upper-cased taxonomic) names for families that I want you to know. I have avoided formal names for groups above the level of order because there is no broad consensus yet on what these should be. The names below are consistent with the classification of APG III (Angiosperm Phylogeny Group 2009).

**I. ferns & fern allies or pteridophytes**

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- A. club-mosses, lycophytes, or lycopods
  - family Lycopodiaceae
- B. horsetails & scouring-rushes
  - family Equisetaceae
- C. leptosporangiate ferns
  - family Polypodiaceae *sensu lato*
- D. whisk ferns
  - family Psilotaceae
- E. Vascular plant phylogeny

**II. seed plants or spermatophytes**

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- A. gymnosperms
  - 1. cycads
    - families Cycadaceae and Zamiaceae
  - 2. ginkgos
    - family Ginkgoaceae
  - 3. conifers
    - families Pinaceae, Cupressaceae, Taxaceae
- B. angiosperms or flowering plants
  - 1. primitive dicots or basal angiosperms
    - a. water-lilies
      - family Nymphaeaceae
    - b. magnoliids
      - families Magnoliaceae, Lauraceae
  - 2. monocots
    - families Alismataceae, Arecaceae, Liliaceae, Orchidaceae, Poaceae
  - 3. primitive eudicots
    - family Ranunculaceae
  - 4. core eudicots
    - a. rosids
      - families Brassicaceae, Fabaceae, Fagaceae, Rosaceae
    - b. asterids
      - families Asteraceae, Ericaceae, Lamiaceae, Solanaceae
- C. Seed plant phylogeny

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Lecture Reading:

1. Plate 1. Reproductive Terminology (pp 978-979) in Rhoads & Block (2007).
2. Plate 2. Leaf Terminology (pp 980-981) in Rhoads & Block (2007).
3. Rhoads & Block (2007) descriptions of all PA-native plant families mentioned.
4. Angiosperm Phylogeny Group. 2009. An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG III.