

Flowering Plants – Reproductive Morphology

BIO 3520

#11

Your Preparations Plans for Tuesday, Feb. 23

- A. Morning Lecture – Return and discussion of Exam I (ENS 240)
– Introduction/ Overview of Reproductive Morphology/Terminology
– Reading Assignment: Murrell Chapter 11, pp. 187-198; 205-216.
-- These pages contain background information and terminology which you will use to accomplish the laboratory learning objectives listed below. Please take time to familiarize or refamiliarize yourself
- B. Laboratory Using live flowers and dissection techniques you will have opportunity to review and expand your knowledge of angiosperm reproductive morphology. In particular, you will be assisted in accomplishing the following learning objectives:
1. Identify and explain the relationships among the major whorls and appendages of a complete flower.
 2. Explain the common character variations within the Magnoliophyta – e.g. ovary position, flower symmetry, degree of completeness or perfectness, and patterns of fusion of appendages within and between whorls.
 3. Complete a Floral Morphology Worksheet representing the ability to diagnose the morphology and use appropriate descriptive terminology for representative species.
 4. Utilize the taxonomic key or a field guide to identify plant species.
 5. Construct a *floral formula* for representative flowering plant species.
 6. Construct a *floral diagram* for representative flowering plant species.
- C. Visual Resources:
1. Live Specimens of *Lilium*, *Alstromeria*, and *Antirrhinum* (Snapdragon)
 2. Murrell Text, Chapter 11
 3. PowerPoint Slides (PDF format) on S:\drive
- D. Supplies to Bring: Murrell Text, class notes, field journal, hand magnifier