



Lab next two weeks: (1) vegetative features & conifers – see "Vegetative" pdf from Chpt 9 in *Plant Systematics*; (2) finish overview of flower and examine floral, fruit, & inflorescence diversity – see also "Inflorescences" and "Fruit" pdfs at Canvas/Learn@UW



The Flower — Why Important?

The Flower: most significant feature of angiosperms

- unlike anything else in other plants & extremely variable & co-evolved with animals
- 2. floral features used in describing and id'ing
- plant specimens (herbarium) must include flowers or derived features
- 4. classification of angiosperms relies on flowers

Calochortus - fairy lanterns & mariposas (images: T. Givnish)



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The Flower — What is it?

- specialized shoot = stem + leaves (folia)
- shoot is highly modified and determinate (ceased to grow)









The Flower — What is it?

- thus, a flower is a specialized shoot that:
- 1. is determinate (vs. indeterminate)
- 2. has a modified stem with compressed internodes
- possesses modified leaves with various functions, these determined by gene arrays (e.g., ABC model)







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- 1. is determinate (vs. indeterminate)
- 2. has a modified stem with compressed internodes
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- 4. often clustered in an inflorescence (larger branch)























parts - often referred to as carpel(s)

at top of style that receives and recognizes pollen

































The Flower

Numerical plan - merosity, arrangement of perianth • not necessarily stamens or carpels





perianth spiralled

Common in primitive angiosperms

perianth 5-merous Common in eudicots

























