## BIOL 301 – Plant Taxonomy

**DIAGNOSTIC VEGETATIVE CHARACTERISTICS (all divisions)**

1. duration

a. life span

b. seasonal duration

c. within one season

2. habit = growth form

3. root system morphology

4. stem system morphology

5. leaves

1. parts
2. arrangement
3. composition
4. shape
5. margins
6. venation
7. apices and bases
8. modifications
9. surface and surface coverings
10. scent
11. texture
12. scars

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**DIAGNOSTIC REPRODUCTIVE CHARACTERISTICS**

1. Type of reproductive structure
   1. spores
   2. cones
   3. flowers
2. Flower parts
   1. sepals/calyx
   2. petals/corolla
   3. stamens/androecium
   4. carpels/gynoecium
3. Number of flower parts
4. Symmetry of flower
5. Presence or absence of floral series
   1. complete/incomplete
   2. perfect/imperfect
   3. monoecious/dioecious
6. Insertion of floral parts
   1. superior ovary
   2. inferior ovary
7. Placentation
8. Inflorescence types
9. Fruits