

KEY TO SELECTED NATIVE AND INTRODUCED TREES AND SHRUBS

(In and around Cameron Park & the McLennan Community College campus)

developed by Janis Jackson, MCC botanist

- (1) Leaves in the form of evergreen needles or scales.....2
- (1) Leaves with broader, flat lamina; deciduous or evergreen.....4
 - (2) Leaves with 2, 3, or 5 needles per fascicle (bundle).....Pine (**Pinus**)
 - (2) Leaves in scales, overlapping, less than 5 cm long.....3
- (3) Leafy twigs decidedly flattened.....Arbor vitae (**Thuja**)
- (3) Leafy twigs not flattened; leaves taper into a sharp point.....E. Red Cedar (**Juniperus**)
 - (4) Leaves opposite, subopposite or in whorls of 3 or more per node.....5
 - (4) Leaves alternate on the stem.....11
- (5) Leaves simple.....6
- (5) Leaves compound.....9
 - (6) Leaves opposite or subopposite.....7
 - (6) Leaves mostly whorled.....Oleander (**Nerium**)
- (7) Leaf margins entire, crinkled flowers; irregular, flaky bark.....Crape Myrtle (**Lagerstroemia**)
- (7) Leaf margins serrated with fine teeth.....8
 - (8) Stem surface glabrous; leaves 2½ - 3 ins long.....Rusty Black haw (**Viburnum rufidulum**)
 - (8) Stem covered with fine pubescence.....Swamp privet (**Forestiera**)
- (9) Leaves pinnately compound.....10
- (9) Most leaves palmately compound.....Purple Sage (**Vitex**)
 - (10) Leaflets 3 to 5, coarsely toothed apex.....Box Elder (**Acer**)
 - (10) Most leaflets 5 (can be 7 – 11), margins entire or finely toothed.....White Ash (**Fraxinus**)
- (11) Leaves simple.....12
- (11) Leaves compound.....30
 - (12) Leaves fan-shaped with small dichotymous venation.....Maidenhair tree (**Ginkgo**)
 - (12) Leaves not fan-shaped, some veins larger than others.....13

(13) Leaf margins neither lobed nor toothed when mature (having entire margins).....	14
(13) Leaf margins either lobed or toothed when mature (having "not entire margins").....	20
(14) Leaves heart-shaped	15
(14) Leaves not heart-shaped	16
(15) Leaves heart-shaped throughout; seed pods green.....	Eastern Redbud (<u>Cercis canadensis</u>)
(15) Leaves kidney-shaped at base; seed pods red.....	Oklahoma Redbud (<u>Cercis reniformis</u>)
(16) Buds clustered at ends of twigs; leaves glabrous.....	Live Oak (<u>Quercus virginiana L.</u>)
(16) Buds not as above.....	17
(17) Thorns or spines present on stem.....	17B
(17) No thorns or spines present.....	18
(17B) Leaves & twigs pubescent; petiole <½ in.....	Gum Bumelia (<u>Bumelia</u>)
(17B) Leaves glabrous; petiole can be ½ in. or >.....	Bois D'Arc (<u>Maclura pomifera</u>)
(18) Leaf bases symmetrical.....	19
(18) Leaf bases not symmetrical; leaves with 2 prominent lateral veins from base of leaf.....	
.....	Sugar Hackberry (<u>Celtis</u>)
(19) Broad leaf with greatly elongated apex; milky sap; rough bark... Chinese tallow (<u>Sapium</u>)	
(19) Leaf without long apex; smooth bark.....	Wild persimmon (<u>Diospyros</u>)
(20) Petiole flattened.....	Cottonwood (<u>Populus</u>)
(20) Petiole not flattened.....	21
(21) Leaves in two rows on a single stem (Two-ranked).....	22
(21) Leaves in more than two rows on a stem.....	28
(22) Leaves palmately venated.....	23
(22) Leaves pinnately venated.....	25
(23) Leaves with rounded lobes, or lobes absent on margins.....	24
(23) Leaves with pointedly lobed margins.....	Sycamore (<u>Platanus</u>)
(24) Leaf bases symmetrical, some margins unevenly lobed.....	Mulberry (<u>Morus</u>)
(24) Leaf bases not symmetrical, margins never lobed.....	Common Hackberry(<u>Celtis</u>)

- (25) Leaves 3-5 in. long and quite narrow.....Willow (**Salix**)
- (25) Leaves broader in relation to length.....26
- (26) Leaves 3–7 in. long..... American Elm (**Ulmus americana**)
- (26) Leaves 1-2 in. long.....27
 - (27) Shrub with small, thin, glabrous leaves with serrated margins and small red berries.....
 -Possomhaw Holly (**Ilex**)
 - (27) Tree with coarsely toothed and scabrous leaves.....Cedar Elm (**Ulmus crassifolia**)
- (28) Leaves with a bristle at the end of each main vein in leaf.....(a species of Red Oak)
 -Shumard or Spanish Oak (**Quercus shumardii**)
- (28) Leaves without a bristle..... (a species of White Oak).....29
 - (29) Mature leaves deeply lobed. Tree producing huge acorns (2-5 cm) in fringed cup.....
 -Burr Oak (**Quercus macrocarpa**)
 - (29) Leaves shallowly lobed. Tree with light, shaggy bark.....Durand Oak (**Quercus durandii**)
- (30) Leaves once or singly compound.....34
- (30) Leaves twice or doubly compound.....31
 - (31) Thorns or prickles on stems.....32
 - (31) No thorns or prickles on stem.....33
- (32) Evenly doubly pinnately compound leaves; beans cylindrical.....Mesquite (**Prosopis**)
- (32) Oddly singly pinnately compound leaves; flat beans (1 ½ in. long), thorns on branches.....
 -Honey Locust (**Gleditsia**)
- (33) Margins of leaflets toothed; small, round, green berries.....Chinaberry (**Melia**)
- (33) Margins of leaflets entire; long, flat legumes.....Mimosa (**Albizia**)
- (34) Stems heavily prickled; aromatic leaves occasionally spined.....Prickly Ash or
 -Hercules Club (**Zanthoxylum**)
- (34) No prickles on stems.....35
 - (35) Having 5-7 leaflets with fine-toothed margins; fruit a 3-chambered capsule.....
 -Mexican Buckeye (**Ungnadia**)
 - (35) Having 9 or more leaflets.....36

- (36) Toothed leaf margins.....37
- (36) Leaves with entire margins.....39
 - (37) Axillary bud covered by base of petiole; 27 or > coarsely toothed leaflets; small, hard berries in terminal cluster.....Smooth Sumac (**Rhus**)
 - (37) Axillary buds visible without removing leaf; larger trees bearing nuts.....38
 - (38) Oval fruit dehiscing on four lines; 9-17 leaflets varying from 4-8 in. long.....Pecan (**Carya**)
 - (38) Round, indehiscent fruit; 17-23 leaflets varying from 3-5 in. long.....Black Walnut (**Juglans nigra**)
 - (39) Pinkish-white flowers producing beans constricted to resemble black beads; large pulvinus present at base of leaf, composed of 13 or > leaflets from 1-1 ½ in. long.....
 -Eve's Necklace (**Sophora affinis**)
 - (39) Small fruits resembling China berries; 13-22 slender leaflets, each over 1 ½ in. long.....
 -Soapberry (**Sapindus drummondii**)