

Order	Common Name	Scientific Name	Characteristics	Location	Grid	Notes
10	Baldcypress	<i>Taxodium distichum</i> (Cupressaceae) (formerly Taxodiaceae) <i>Taxodium = Taxus-like distichum = two-ranked (leaves)</i>	Conifer Bark: redish-brown, shallow ridge & furrow to peeling/fibrous Leaf: alternate; needles are flattened, .3- .8" long; deciduous Flower: monoecious (both male pollen cones and female seed cones on same plant), pendulous 4-5" clusters in spring Fruit: closed round cone, .5-1" diameter, held in clusters, mature from green to brown in the fall	N of Guest Center Between Fern Glade & Demonstration Vegetable Garden	F8 K10	50-70 ft; native to seasonally and permanently flooded soils in SE USA; pyramidal form when young, fluted trunk; produces "knees" in wet sites, taproot; fall color - rust-colored ; longest living tree of eastern North America (~1620 years); tolerant of many sites
11	Chinese pistache	<i>Pistacia chinensis</i> (Anacardiaceae)	Bark: gray-brown, shallow reddish-brown furrows, aging to rectangular flat-topped ridges Leaf: alternate; pinnately compound; 10-12 inches long, 10-12 lanceolate-narrow ovate leaflets Flower: dioecious; red to green, males 2-3 inch clusters; females looser, longer groups; appear before leaves in spring Fruit: bright red (later dark blue), round drupe, 1/2 inch diameter, ripen fall	Green parking lot	F8	40 ft.; fall color - orange, red; native to China; good urban tree
12	Swamp white oak	<i>Quercus bicolor</i> (Fagaceae) <i>bicolor = two-colored (leaves)</i>	Bark: young tree - flaky, peeling bark; mature tree - dark gray-brown with blocky ridges Leaf: alternate; simple; 5-10 rounded lobes; green above, silvery white below Flower: monoecious; male catkins, female inconspicuous Fruit: acorn, 0.5-1 inch long, enclosed halfway with warty cap	Green parking lot	E8	50-70 ft.; fall color - copper, red, yellow; white oak group
13	River birch	<i>Betula nigra</i> (Betulaceae) <i>Betula = shine (bark) nigra = black(bark)</i>	Bark: smooth on young trees, salmon to rust colored; later exfoliating Leaf: alternate; simple; pinnately-veined; doubly serrate; 1-1/2 to 3 inches long Flower: monoecious; reddish-green male catkins; female catkins upright Fruit: cone-like, aggregate; 1 to 1-1/2 inches long, reddish brown; 3-winged seeds ripen in fall	NE of Green parking lot	E9	40-70 ft.; fall color - yellow; sometimes multi-trunked
14	Honeylocust	<i>Gleditsia triacanthos</i> (Fabaceae) (formerly Leguminosae) <i>Gleditsia = J.D. Gleditsch triacanthos = three-spined</i>	Bark: gray-brown to bronze, smooth, later developing long, narrow, curling plates; large branched thorns Leaf: alternate; pinnately or bipinnately compound; 15-30 ovate to elliptical leaflets Flower: polygamo-dioecious; small, greenish yellow, on 2-3 inch long hanging clusters, late spring to early summer Fruit: 6-8 inch long flattened, red-brown, leathery pod	Ditch east of Green parking lot	E9	30-70 ft.; fall color - copper, yellow; light shade; thornless/seedless varieties available

Order	Common Name	Scientific Name	Characteristics	Location	Grid	Notes
15	American elm	<i>Ulmus americana</i> (<i>Ulmaceae</i>)	Bark: dark, ashy gray, flat-topped ridges separated by diamond-shaped fissures Leaf: alternate; simple; ovate to oblong; 3-5 inches long; doubly serrate; base inequilateral Flower: monoecious; small drooping clusters of 3 to 5, early spring before leaves Fruit: rounded, flat, papery, wafer-like samaras, 3/8 to 1/2 inch across, ripen in spring	Just south of Guest Center	H8	80-100 ft.; susceptible to Dutch elm disease; some cultivars resistant 'Princeton'; vase-shaped; fall color - yellow
16	Kentucky yellowwood	<i>Cladrastis kentukea</i> (formerly <i>C. lutea</i>) (<i>Fabaceae</i>) (formerly <i>Leguminosae</i>) <i>Cladrastis</i> = brittle branch <i>lutea</i> = yellowish	Bark: usually multi-trunked 6-12" from ground, smooth grey bark Twig: smooth w/swollen nodes, zig-zag Leaf bud: very fuzzy Leaf: alternate, odd-pinnately compound leaf 6-13", 5-11 (usu 7-9) alternate entire leaflets, obovate w/slight tip, prominent straight (non-branching) side veins; deciduous Flower: perfect (monoecious), showy, 1" white, 5-petals in large, branched, drooping clusters up to 14" long, fragrant, late spring Fruit: 2-4" long flat narrow hairless pod containing 5-6 brown seeds, late summer	Demonstration Vegetable Garden, by creek	K10	30-50 ft.; fall color - yellow; heartwood is yellow
17	Littleleaf linden	<i>Tilia cordata</i> (<i>Tiliaceae</i>) <i>cordata</i> = heart-shaped	Bark: gray or brown, ridged with shallow furrows Leaf: alternate; simple; ovate to cordate; 2-4 inches long; serrate margins; pinnately veined Flower: monoecious; pale yellow, below a leafy bract, early to mid summer Fruit: round, 5-sided nutlet; ripens in fall	N of Teledyne pavilion	I7	40-50 ft.; fall color - yellow; good street tree
18	Southern magnolia	<i>Magnolia grandiflora</i> (<i>Magnoliaceae</i>) <i>Magnolia</i> = Pierre Magnol <i>grandiflora</i> = large flower	Bark: brown to gray; thin Leaf: alterante; simple; evergreen; oval to elliptical; thick; entire margin; underneath red-brown fuzz Flower: monoecious; showy and fragrant; large white petals Fruit: aggregate of follicles; seeds red; maturing in fall Twig: stipule scar conspicuous, encircling twig	SW of Lake Lonnie	I7	60-80 ft.; 'Little Gem' is dwarf form, up to 30 ft.; fall color - none

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