

Town of Knightdale Approved Canopy Tree List

| Common Name | Scientific Name | Native | Evergreen | Width at Maturity | Height at Maturity | Irrigated Tree Wells/Grates | Street Trees | Parking Lot Interiors | P-lot Perimeter & Planting Strips | Residential Yard | Buffers | Comments / "Approved Cultivars" |
|-------------------------|----------------------------------|--------|-----------|-------------------|--------------------|-----------------------------|--------------|-----------------------|-----------------------------------|------------------|---------|--------------------------------------------------------------------------------------------|
| Alder, Manchurian | <i>Alnus hirsuta</i> | | | 20 | 40 | Y | | Y | Y | Y | Y | |
| Ash, Green | <i>Fraxinus pennsylvanica</i> | NC | | 25 | 50 | | | | | Y | Y | Cultivars only: "Patmore", "Summit", "Marhsall's Seedless"; Borers can still be a problem |
| Ash, White | <i>Fraxinus americana</i> | NC | | 40 | 50 | | | | | Y | | Cultivars only: "American Applause", "Autumn Purple®"; Needs space |
| Beech, American | <i>Fagus grandifolia</i> | NC | | 40 | 50 | | | | | | Y | Shallow roots |
| Birch, River | <i>Betula nigra</i> | NC | | 40 | 40 | | | | Y | Y | Y | Drought sensitive, "DuraHeat®", "Fox Valley", "Heritage", "Suwanee" |
| Birch, Sweet | <i>Betula lenta</i> | NC | | 35 | 40 | | | | Y | Y | Y | |
| Buckeye, Yellow | <i>Aesculus flava</i> | NC | | 30 | 50 | | | | | | Y | Moist soils only |
| Cedar, Atlantic White | <i>Chamaecyparis thyoides</i> | NC | Y | 10 | 40 | | | | | Y | | Full Sun |
| Cedar, Atlas | <i>Cedrus atlantica</i> | | Y | 30 | 40 | | | | | Y | | Specimen tree |
| Cedar, Blue Atlas | <i>Cedrus atlantica 'Glauca'</i> | | Y | 40 | 60 | | | | Y | Y | Y | No wet or poorly drained soils |
| Cedar, Deodar | <i>Cedrus deodara</i> | | Y | 30 | 40 | | | | Y | Y | Y | Needs space; "Aurea" |
| Cedar, Eastern Red | <i>Juniperus virginiana</i> | NC | Y | 10 | 30 | | | | | Y | | Needs full sun; "Brodie", "Emerald Sentinel", Princeton Sentry" |
| Cedar, Incense | <i>Calocedrus decurrens</i> | | | 10 | 30 | | | | | Y | Y | |
| Coffeetree, Kentucky | <i>Gymnocladus dioicus</i> | US | | 40 | 60 | | | Y | Y | Y | Y | Drops pods |
| Cryptomeria, Japense | <i>Cryptomeria japonica</i> | | Y | 25 | 50 | | | | | Y | Y | "Ben Franklin", "Black Dragon", "Compacta", "Lobbii", "Yoshino" |
| Cypress, Arizona | <i>Cupressus arizonica</i> | | Y | 15 | 30 | | | | Y | Y | Y | Best in full sun |
| Cypress, Bald | <i>Taxodium distichum</i> | NC | | 20 | 50 | | | | Y | Y | Y | "Monarch of Illinois", "Shawnee Brave", "Autumn Gold", Needs space |
| Dogwood, Giant | <i>Cornus controversa</i> | | | 20 | 35 | Y | | | | Y | Y | |
| Elm, Lacebark (Chinese) | <i>Ulmus parvifolia</i> | | | 35 | 40 | Y | Y | | Y | Y | Y | Needs to be trained to central leader, "Athena®", "Allee®", "Drake", "Bosque"; Needs Space |
| Falsecypress, Hinoki | <i>Chamaecyparis obtuse</i> | | Y | 10 | 50 | | | | | | Y | "Crippssii", "Fernspray", "Fernspray Gold", "Kosteri", "Mariesii", "Tempelhof" |
| Falsecypress, Japanese | <i>Chamaecyparis pisifera</i> | | Y | 10 | 50 | | | | | | Y | "Boulevard", "Lemon Thread", "Snow", "Tsukuma" |
| Fir, China | <i>Cunninghamia lanceolata</i> | | | 20 | 30 | | | | | | Y | "Chason's Gift" |

Town of Knightdale Approved Canopy Tree List

| Common Name | Scientific Name | Native | Evergreen | Width at Maturity | Height at Maturity | Irrigated Tree Wells/Grates | Street Trees | Parking Lot Interiors | P-lot Perimeter & Planting Strips | Residential Yard | Buffers | Comments / "Recommended Cultivars" |
|----------------------------|----------------------------------------------|--------|-----------|-------------------|--------------------|-----------------------------|--------------|-----------------------|-----------------------------------|------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fir, Cilicica | <i>Abies cilicica</i> | | Y | 25 | 60 | | | | | | Y | |
| Fir, Japanese | <i>Abies firma</i> | | Y | 20 | 40 | | | | | Y | Y | |
| Gum, Black | <i>Nyssa sylvatica</i> | NC | | 20 | 40 | | | | Y | Y | Y | No standing water, residential street tree only |
| Hackberry (Sugarberry) | <i>Celtis laevigata</i> | NC | | 60 | 60 | | | | | Y | Y | |
| Hackberry | <i>Celtis occidentalis</i> | Y | | 40 | 40 | Y | | Y | Y | Y | Y | "Prairie's Pride" |
| Hemlock, Southern Japanese | <i>Tsuga sieboldii</i> | | Y | 20 | 30 | | | | | Y | Y | |
| Holly, American | <i>Ilex opaca</i> | NC | Y | 20 | 30 | | | | Y | Y | Y | Single trunk only |
| Honeylocust | <i>Gleditsia triacanthos</i> | US | | 25 | 50 | | | | Y | Y | Y | Thornless cultivars only |
| Hornbeam, American | <i>Carpinus caroliniana</i> | NC | | 20 | 30 | Y | | Y | Y | Y | Y | |
| Linden, American | <i>Tilia americana</i> | NC | | 45 | 60 | Y | | Y | Y | Y | Y | Not good for wet sites |
| Magnolia, Cucumber Tree | <i>Magnolia acuminata</i> | NC | | 50 | 50 | | | | | Y | | "Yellow Fever" |
| Magnolia, Freeman | <i>Magnolia x 'Freeman'</i> | | Y | 30 | 60 | | | | | Y | Y | |
| Magnolia, Hybrid | <i>Magnolia x spp.</i> | | | 30 | 40 | | | | Y | Y | Y | "Yellow Bird" |
| Magnolia, Southern | <i>Magnolia grandiflora</i> | NC | Y | 30 | 40 | | | | | Y | Y | "Alta™", "Baldwin", "Claudia Wannamaker", "D.D. Blancher", "Dearing", "Edith Bogue", "Gloriosa", "Goliath", "Greenback™", "Hasse", "Kingsville", "Majestic Beauty", "Russet", "Samual Sommer", "Satin Leaf" |
| Maple, Freeman | <i>Acer x freemanii (rubrum x saccharum)</i> | | | 20 | 40 | | | | | Y | Y | "Armstrong", "Autumn Blaze™", "Celebration/Celzam", "Marmo", "Morgan", "Scarlet Sentinel™" |
| Maple, Nippon | <i>Acer nipponicum</i> | | | 30 | 50 | | | | Y | Y | Y | |
| Maple, Red | <i>Acer rubrum</i> | NC | | 25 | 40 | | | | | Y | Y | "Autumn Flame", "Autumn Radiance", "Bowhall", "Burgundy Belle", "Northwood", "October Brilliance", "October Glory", "Red Sunset", "Schlesingeri", "Shade King", "V.J. Drake" |
| Maple, Sugar | <i>Acer saccharum</i> | NC | | 30 | 50 | | Y | Y | Y | Y | Y | "Arrowhead", "Bonfire", "Caddo", "Commemoration", "Green Mountain", "Goldspire", "Legacy", "Newton Sentry", "Seneca Chief", "Sweet Shadow" |
| Mountainash, Korean | <i>Sorbus alnifolia</i> | | | 20 | 30 | | | | | Y | Y | "Redbird"; "Skyline" |
| Oak, Bur | <i>Quercus macrocarpa</i> | US | | 70 | 70 | | | | | Y | | Tolerates urban conditions, but difficult to transplant |

Town of Knightdale Approved Canopy Tree List

| Common Name | Scientific Name | Native | Evergreen | Width at Maturity | Height at Maturity | Irrigated Tree Wells/Grates | Street Trees | Parking Lot Interiors | P-lot Perimeter & Planting Strips | Residential Yard | Buffers | Comments / "Recommended Cultivars" |
|-----------------------|---------------------------------|--------|-----------|-------------------|--------------------|-----------------------------|--------------|-----------------------|-----------------------------------|------------------|---------|--------------------------------------------------|
| Oak, Chestnut | <i>Quercus prinus</i> | | | 40 | 60 | | | | | Y | Y | Wildlife food |
| Oak, Columnar English | <i>Quercus robur Fastigiata</i> | | | 10 | 50 | | | | | Y | Y | |
| Oak, Daimyo | <i>Quercus dentate</i> | | | 50 | 50 | | | | | Y | Y | "Pinnatifida" |
| Oak, English | <i>Quercus robur</i> | | | 40 | 40 | | | | | Y | | Needs a lot of space; "Filicifolia", "Variegata" |
| Oak, Laurel | <i>Quercus hemisphaerica</i> | NC | Y | 30 | 40 | Y | | Y | Y | Y | Y | Soil needs to be well-drained |
| Oak, Oriental | <i>Quercus variabilis</i> | | | 40 | 60 | | | | | Y | Y | |
| Oak, Overcup | <i>Quercus lyrata</i> | NC | | 35 | 35 | | | Y | Y | Y | Y | "Highbeam®" |
| Oak, Pin | <i>Quercus palustris</i> | NC | | 40 | 60 | | | | | Y | Y | Tends to have more surface roots |
| Oak, Post | <i>Quercus stellata</i> | NC | | 30 | 40 | | | Y | | Y | Y | |
| Oak, Red | <i>Quercus rubra</i> | NC | | 60 | 60 | | | | | Y | Y | Needs sun, drought and pollution tolerant |
| Oak, Sawtooth | <i>Quercus acutissima</i> | | | 30 | 30 | Y | Y | Y | Y | Y | Y | Very adaptable |
| Oak, Shingle | <i>Quercus imbricaria</i> | NC | | 50 | 50 | | | | | Y | Y | |
| Oak, Shumard Red | <i>Quercus shumardii</i> | NC | | 40 | 40 | | | | | Y | Y | Shallow roots |
| Oak, Southern Red | <i>Quercus falcate</i> | NC | | 50 | 70 | | | | | Y | Y | |
| Oak, Swamp Chestnut | <i>Quercus michauxii</i> | NC | | 50 | 60 | | | | | Y | Y | Shallow roots |
| Oak, Swamp White | <i>Quercus bicolor</i> | NC | | 50 | 50 | | | | | Y | Y | Not good with air pollution |
| Oak, Water | <i>Quercus nigra</i> | NC | | 30 | 50 | | | | | Y | Y | |
| Oak, Willow | <i>Quercus phellos</i> | NC | | 30 | 60 | | | Y | Y | Y | Y | |
| Pear, Chinese sand | <i>Pyrus pyrifolia</i> | | | 30 | 30 | | | | Y | Y | | Needs well-drained soil and sun |
| Pecan | <i>Carya illinoensis</i> | US | | 40 | 70 | | | | | Y | Y | |
| Persimmon | <i>Diospyros virginiana</i> | NC | | 20 | 30 | | | | | | Y | |
| Pine, Bosnian | <i>Pinus heldreichii</i> | | Y | 30 | 70 | | | | | | Y | |
| Pine, Cluster | <i>Pinus pinaster</i> | | Y | 20 | 40 | | | | | | Y | |
| Pine, Japanese Black | <i>Pinus thunbergiana</i> | | Y | 25 | 50 | | | | | Y | Y | |
| Pine, Lacebark | <i>Pinus bungeana</i> | | Y | 20 | 30 | | | | | | Y | |
| Pine, Loblolly | <i>Pinus taeda</i> | NC | Y | 30 | 50 | | | | | | Y | |

Town of Knightdale Approved Canopy Tree List

| Common Name | Scientific Name | Native | Evergreen | Width at Maturity | Height at Maturity | Irrigated Tree Wells/Grates | Street Trees | Parking Lot Interiors | P-lot Perimeter & Planting Strips | Residential Yard | Buffers | Comments / "Recommended Cultivars" |
|------------------------|-------------------------------------|--------|-----------|-------------------|--------------------|-----------------------------|--------------|-----------------------|-----------------------------------|------------------|---------|------------------------------------------------------------------------------------|
| Pine, Longleaf | <i>Pinus palustris</i> | NC | Y | 30 | 80 | | | | | | Y | Needs sandy soil, prone to storm damage, dense buffers only |
| Pine, Pond | <i>Pinus serotina</i> | NC | Y | 20 | 30 | | | | | | Y | Needs sun |
| Pine, Scotch | <i>Pinus sylvestris</i> | | Y | 20 | 30 | | | | | Y | Y | Needs sun and well-drained soil |
| Pine, Spruce | <i>Pinus glabra</i> | | Y | 30 | 40 | | | | | | Y | |
| Pistachio, Chinese | <i>Pistacia chinensis</i> | | | 25 | 30 | Y | Y | Y | Y | Y | Y | |
| Planetree, London | <i>Platanus acerifolia</i> | | | 65 | 70 | Y | | Y | Y | Y | Y | "Columbia" |
| Planetree, Oriental | <i>Platanus orientalis</i> | | | 50 | 60 | | | Y | Y | Y | Y | |
| Poplar, Tulip | <i>Liriodendron tulipifera</i> | NC | | 20 | 40 | | | | | Y | Y | "Arnold" |
| Raisintree, Japanese | <i>Hovenia dulcis</i> | | | 20 | 30 | | | | Y | Y | Y | |
| Redwood, Dawn | <i>Metasequoia glyptostroboides</i> | | | 15 | 50 | | | | Y | Y | Y | "Ogon" |
| Redwood, Sierra | <i>Sequoiadendron giganteum</i> | US | Y | 25 | 60 | | | | Y | Y | Y | "Hazel Smith" |
| Redwood, Soquel | <i>Sequoia sempervirens</i> | US | Y | 20 | 50 | | | | Y | Y | Y | |
| Sassafras | <i>Sassafras albidum</i> | NC | | 25 | 30 | | | | | | Y | |
| Spruce, Purple Lijiang | <i>Picea likiangensis</i> | | | 15 | 30 | | | | | Y | Y | |
| Sweetgum | <i>Liquidambar styraciflua</i> | NC | | 50 | 60 | | | Y | Y | Y | Y | Drought sensitive, "Rotundiloba" (fruitless) |
| Sweetgum, Formosan | <i>Liquidambar formosana</i> | | | 25 | 40 | | | | | | Y | |
| Tulip Tree, Chinese | <i>Liriodendron chinense</i> | | | 35 | 70 | | | | | | Y | |
| Willow, Hankow/Pekin | <i>Salix matsudana</i> | | | 20 | 40 | | | | | Y | Y | |
| Willow, Weeping | <i>Salix babylonica</i> | | | 20 | 30 | | | | | | Y | Somewhat brittle, so should be protected in buffers |
| Willow, White | <i>Salix alba var. sericea</i> | | | 50 | 60 | | | | Y | Y | Y | Moist Soils |
| Zelkova, Japanese | <i>Zelkova serrata</i> | | | 40 | 50 | Y | Y | Y | Y | Y | Y | "Autumn Glow", "GreenVase", "Green Veil", "Halka", "Spring Grove", "Village Green" |
| Zelkova, Schneider | <i>Zelkova schneideriana</i> | | | 50 | 50 | Y | Y | Y | Y | Y | Y | |

Town of Knightdale Approved Understory Tree List

| Common Name | Scientific Name | Native | Evergreen | Width at Maturity | Height at Maturity | Irrigated Tree Wells/Grates | Street Trees | P-lot Perimeter & Planting Strips | Buffers | Comments / "Approved Cultivars" |
|----------------------------|----------------------------------------------------|--------|-----------|-------------------|--------------------|-----------------------------|--------------|-----------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alder, Japanese | <i>Alnus japonica</i> | | | 10 | 15 | Y | | Y | Y | |
| Apricot, Japanese | <i>Prunus mume</i> | | | 15 | 20 | Y | | Y | Y | Best on well-drained sites |
| Birch, River | <i>Betula nigra</i> | NC | | 20 | 20 | | | Y | Y | "Heritage®" cultivar only |
| Buckeye, Hybrids | <i>Aesculus x</i> | | | 15 | 15 | | | | Y | Moist soils only; "Arnoldiana", "Homestead" |
| Buckeye, Red | <i>Aesculus pavia</i> | NC | | 10 | 10 | | | Y | Y | "Splendens", "Humilis" |
| Buckeye, Painted | <i>Aesculus sylvatica/georgiana</i> | NC | | 10 | 10 | | | | Y | Moist soils only |
| Cherry, Higan | <i>Prunus subhirtella</i> | | | 15 | 15 | Y | | Y | | |
| Cherry, Japanese Flowering | <i>Prunus serullata</i> | | | 15 | 20 | Y | Y | Y | Y | "Accolade", "Okame", "Snow Goose", "Kwanzan", Best on well-drained sites, Beetles and root rot can be problems |
| Cherry Laurel, Carolina | <i>Prunus caroliniana</i> | NC | Y | 10 | 10 | | | Y | Y | "Compacta", "Emerald King™", "Bright 'N Tight™"; Needs good drainage |
| Chinquapin | <i>Castanea pumila</i> | NC | | 10 | 20 | | | | Y | |
| Crabapple | <i>Malus spp.</i> | NC | | 10 | 10 | | | | | "Adirondack", "Centurion®", "Coralburst™", "David", "Glendora White", "Golden Raindrops", "Indian Magic", "Madonna®", "Prairifire", "Spring Snow", "Snowdrift", "Sugar Tyme®", <i>floribunda</i> , <i>sargentii</i> |
| Crape myrtle | <i>Lagerstroemia indica</i> | | | 10 | 15 | Y | Y | | | "Burgundy Cotton®", "Byers Standard Red", "Byers Wonderful White", "Catawba", "Centennial Spirit", "Cherokee", "Dallas Red", "Dynamite™", "Near East", "Peppermint Lace", "Potomac", "Powhatan", "Red Rocket®", "Sarah's Favorite", "Seminole", "Siren Red®", "Tonto", "Watermelon Red", "White Chocolate", "Yuma"; no dwarf cultivars; pruned to tree form |
| Crape myrtle | <i>Lagerstroemia indica x Lagerstroemia faurei</i> | | | 10 | 15 | Y | Y | | | "Acoma", "Arapahoe", "Biloxi", "Cheyenne", "Choctaw", "Lipan", "Miami", "Muskogee", "Natchez", "Osage", "Pecos", "Sioux", "Tuscarora", "Tuskegee", "Zuni"; no dwarf cultivars; pruned to tree form |
| Crape myrtle, Fantasy | <i>Lagerstroemia faurei</i> | | | 10 | 15 | Y | | | | |
| Cypress, Italian | <i>Cupressus sempervirens</i> | | | 5 | 20 | | | | Y | "Glauca", "Wichita Blue" |
| Dogwood | <i>Cornus x spp.</i> | | | 20 | 20 | | | Y | Y | "Aurora®", "Celestial®", "Constellation®", "Stellar Pink®", |
| Dogwood, Chinese | <i>Cornus kousa chinensis</i> | | | 15 | 20 | Y | | Y | Y | |

Town of Knightdale Approved Understory Tree List

| Common Name | Scientific Name | Native | Evergreen | Width at Maturity | Height at Maturity | Irrigated Tree Wells/Grates | Street Trees | P-lot Perimeter & Planting Strips | Buffers | Comments / "Approved Cultivars" |
|----------------------------|------------------------------------------|--------|-----------|-------------------|--------------------|-----------------------------|--------------|-----------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dogwood, Cornelian Cherry | <i>Cornus mas</i> | | | 15 | 20 | | | | Y | "Aurea", "Spring Glow", "Variegata" |
| Dogwood, Flowering | <i>Cornus florida</i> | NC | | 20 | 20 | | | | Y | Needs partial shade, "Cloud 9", "Weaver's White", "Red Cloud", "Rubra" |
| Dogwood, Kousa | <i>Cornus kousa</i> | | | 20 | 20 | | | Y | Y | "Wolf Eyes", "Satomi" |
| Fringetree | <i>Chionanthus virginicus</i> | NC | | 15 | 15 | | | Y | Y | Tree form only |
| Fringetree, Chinese | <i>Chionanthus retusus</i> | | | 20 | 15 | | | Y | Y | Well drained; tree form only |
| Goldenrain Tree | <i>Koelreuteria paniculata</i> | | | 15 | 20 | Y | Y | Y | Y | "September" |
| Holly, Dahoon | <i>Ilex cassine</i> | NC | Y | 10 | 20 | | | Y | Y | "Baldwin", "Bryanii", "Tortifolia", "Tryon Palace", "Wild Robert" |
| Holly, Long Stalk | <i>Ilex pedunculosa</i> | | Y | 15 | 20 | | | Y | Y | |
| Holly, Weeping Yaupon | <i>Ilex vomitoria f. pendula</i> | NC | Y | 10 | 20 | | | Y | Y | |
| Holly, Nellie R. Stevens | <i>Ilex x 'Nellie R. Stevens'</i> | | Y | 10 | 25 | | | Y | Y | |
| Holly, Carolina Sentinel | <i>Ilex x 'Carolina Sentinel'</i> | | Y | 10 | 20 | | | Y | Y | |
| Holly, Foster's | <i>Ilex x attenuata</i> | NC | Y | 10 | 20 | | | Y | Y | "East Palatka", "Foster's #2", "Savannah", "Sunny Foster" |
| Hophornbeam, American | <i>Ostrya virginiana</i> | NC | | 15 | 25 | Y | | Y | Y | |
| Hornbeam, Heartleaf | <i>Carpinus cordata</i> | | | 10 | 20 | | | Y | Y | |
| Hornbeam, Japanese | <i>Carpinus japonica</i> | | | 10 | 20 | | | Y | Y | |
| Maackia, Amur | <i>Maackia amurensis</i> | | | 20 | 20 | Y | | Y | Y | |
| Magnolia, Columbus | <i>Magnolia x vietchii</i> | | | 15 | 25 | Y | | Y | Y | |
| Magnolia, Hybrid | <i>Magnolia x spp.</i> | | | 15 | 15 | | | Y | Y | "Ann", "Athene", "Betty", "Butterflies", "Elizabeth", "Galaxy", "Jane", "Jon Jon", "Judy", "Paul Cook", "Pristine", "Randy", "Ricki", "Royal Crown", "Spectrum", "Susan", "Tina Durio", "Vulcan" |
| Magnolia, Hybrid Evergreen | <i>Magnolia x spp.</i> | | Y | 15 | 20 | | | Y | Y | "Monland" |
| Magnolia, Lily | <i>Magnolia liliiflora</i> | | | 10 | 10 | | | Y | Y | "O'Neill", "Nigra" |
| Magnolia, Little Gem | <i>Magnolia grandiflora 'Little Gem'</i> | | Y | 10 | 15 | | Y | Y | Y | "Little Gem" |
| Magnolia, Loebner | <i>Magnolia x loebneri</i> | | | 20 | 20 | | | Y | Y | "Balleriana", "Leonard Messel", "Merrill", "Spring Snow", "Super Star", "white Stardust" |
| Magnolia, Oyama | <i>Magnolia sieboldii</i> | | | 10 | 10 | | | Y | Y | |
| Magnolia, Saucer | <i>Magnolia x soulangiana</i> | | | 15 | 15 | | Y | Y | Y | "Alexandrina" (tree form), "Rustica Rubra" |

Town of Knightdale Approved Understory Tree List

| Common Name | Scientific Name | Native | Evergreen | Width at Maturity | Height at Maturity | Irrigated Tree Wells/Grates | Street Tree | P-lot Perimeter & Planting Strips | Buffers | Comments / "Approved Cultivars" |
|-----------------------------|---------------------------------------|--------|-----------|-------------------|--------------------|-----------------------------|-------------|-----------------------------------|---------|------------------------------------------------------------------------------|
| Magnolia, Southern | <i>Magnolia grandiflora</i> | NC | Y | 20 | 20 | | | Y | Y | "Baby Doll", "Bracken's Brown Beauty", "Green Giant", "St. Mary", "Victoria" |
| Magnolia, Star | <i>Magnolia stellata</i> | | | 10 | 10 | | | Y | Y | "Pink Stardust", "Royal Star" |
| Magnolia, Sweetbay (Swamp) | <i>Magnolia virginiana</i> | NC | | 10 | 10 | | | Y | Y | |
| Maple, Amur | <i>Acer ginnala</i> | | | 15 | 15 | | | Y | Y | "Flame" |
| Maple, Chalk (Whitebark) | <i>Acer leucoderme</i> | NC | | 25 | 25 | Y | | Y | Y | Soil needs to be well drained |
| Maple, Fernleaf | <i>Acer japonica f. aconitifolium</i> | | | 20 | 20 | | | | Y | |
| Maple, Hedge | <i>Acer campestre</i> | | | 25 | 25 | | | Y | Y | "Pulverulentum", "Queen Elizabeth", "Royal Ruby" |
| Maple, Japanese | <i>Acer palmatum</i> | | | 10 | 15 | | | Y | Y | |
| Maple, Paperbark | <i>Acer griseum</i> | | | 15 | 20 | | | | Y | |
| Maple, Purple blow | <i>Acer truncatum</i> | | | 20 | 20 | Y | | Y | Y | "Norwegian Sunset™" |
| Maple, Southern Sugar | <i>Acer floridanum</i> | NC | | 20 | 20 | | | | Y | No dry or compact soil, shallow roots |
| Maple, Trident | <i>Acer buergeranum</i> | | | 20 | 25 | Y | Y | Y | Y | "Mino Yatabusa", "Naputo Kaede", "Street Wise®", |
| Mimosa | <i>Albizia julibrissin</i> | | | 25 | 20 | | | | Y | Needs Sun; "Charlotte", "Tryon" |
| Oak, Georgia | <i>Quercus Georgiana</i> | US | | 15 | 15 | | | Y | Y | Needs Sun |
| Oak, Henry tanbark | <i>Lithocarpus henryi</i> | | | 15 | 25 | | | Y | Y | |
| Oak, Japanese Blue | <i>Quercus glauca</i> | | | 10 | 20 | | | Y | Y | |
| Olive, Wild | <i>Osmanthus fortunei</i> | | Y | 10 | 15 | | | | Y | |
| Peach, Corinthian cultivars | <i>Prunus persica Corinthian</i> | | | 10 | 20 | | | Y | Y | "Corinthian Mauve", "Corinthian Rose", "Corinthian White", "Pillar" |
| Persimmon, Japanese | <i>Diospyros khaki</i> | | | 10 | 10 | | | | Y | |
| Pine, Dwarf Loblolly | <i>Pinus taeda</i> | NC | Y | 10 | 20 | | | | Y | "Dixie", "Nana" |
| Pine, Swiss Mountain | <i>Pinus mugo</i> | | Y | 15 | 25 | | | Y | Y | "Gallica" |
| Pine, Virginia | <i>Pinus virginiana</i> | NC | Y | 10 | 15 | | | | Y | |
| Plum, Blieriana | <i>Prunus x bileriana</i> | | | 15 | 15 | | | Y | Y | Needs sun and well-drained soil |
| Plum, Chickasaw | <i>Prunus angustifolia</i> | NC | | 15 | 15 | | | Y | Y | |
| Plum, Purple Leaf | <i>Prunus cerasifera</i> | | | 15 | 15 | | | Y | Y | Needs sun and well-drained soil; "Atropurea" |
| Redbay | <i>Persea borbonia</i> | NC | Y | 10 | 15 | | | | Y | |

Town of Knightdale Approved Understory Tree List

| Common Name | Scientific Name | Native | Evergreen | Width at Maturity | Height at Maturity | Irrigated Tree Wells/Grates | Street Tree | P-lot Perimeter & Planting Strips | Buffers | Comments / "Approved Cultivars" |
|-------------------------|---------------------------------------|--------|-----------|-------------------|--------------------|-----------------------------|-------------|-----------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Redbud, California | <i>Cercis californica</i> | | | 10 | 10 | | | | Y | |
| Redbud, Chinese | <i>Cercis chinensis</i> | | | 10 | 10 | | | | Y | "Alba", "Avondale", "Nana", "Shipobana" |
| Redbud, Eastern | <i>Cercis canadensis</i> | NC | | 25 | 20 | | | Y | Y | Moist soil but good drainage; "Appalachian Red", "Flame", "Forest Pansy", "Pinkbud", "Royal White", "Silver Cloud", "Tennessee Pink", "Winthers Pink Charm" |
| Redbud, Mediterranean | <i>Cercis silicuastrum</i> | | | 10 | 15 | | | | Y | |
| Redbud, Mexican | <i>Cercis Canadensis spp mexicana</i> | | | 10 | 15 | | | | Y | |
| Redbud, Oklahoma | <i>Cercis canadensis spp retisus</i> | | | 15 | 20 | | | Y | Y | |
| Redbud, Texas | <i>Cercis canadensis spp texensis</i> | | | 15 | 15 | | | Y | Y | "Texas White" |
| Rhamnella | <i>Rhamnella franguloides</i> | | | 15 | 20 | | | | Y | |
| Sapphireberry | <i>Symplocos paniculata</i> | | | 10 | 15 | | | | Y | |
| Serviceberry, Allegheny | <i>Amelanchier laevis</i> | NC | | 15 | 15 | | | | Y | "Snowcloud" |
| Serviceberry, Apple | <i>Amelanchier x grandiflora</i> | | | 15 | 20 | | | Y | Y | Partial shade recommended, tree-trained, multi-stem; "Autumn Brilliance", "Autumn Sunset", "Ballerina", "Cumulus", "Princess Diana", "Prince Charles", "Prince William", "Robin Hill" |
| Serviceberry, Downy | <i>Amelanchier arborea</i> | NC | | 10 | 15 | | | Y | Y | Tree-trained only, multi-stem |
| Seven-son Flower | <i>Heptacodium miconioides</i> | | | 10 | 10 | | | | Y | |
| Silverbell, Carolina | <i>Halesia tetraptera</i> | NC | | 15 | 20 | | | | Y | Needs well-drained soil |
| Silverbell, Two-winged | <i>Halesia diptera</i> | NC | | 15 | 15 | | | Y | Y | |
| Smoketree | <i>Cotinus coggygria</i> | | | 10 | 10 | | | Y | Y | |
| Snowbell, Japanese | <i>Styrax japonicus</i> | | | 20 | 20 | | | | Y | Best in partial shade; "Crystal", "Emerald Pagoda", "Fargesii", "Issai", "Snowfall" |
| Sourwood | <i>Oxydendrom aboreum</i> | NC | | 10 | 20 | | | Y | Y | |
| Styrax, Fragrant | <i>Styrax obassia</i> | | | 15 | 20 | | | | Y | |
| Sweetheart Tree, Korean | <i>Euscaphis japonica</i> | | | 10 | 20 | | | | Y | |
| Willow, Corkscrew | <i>Salix matsudana var. tortuosa</i> | | | 15 | 20 | | | | Y | |

Town of Knightdale Approved Shrub List

Any plant shown on the shrub list maintained by the NC State Extension, part of the North Carolina State University Department of Horticulture Science.
<https://plants.ces.ncsu.edu/>

The plant must be hardy for Zone 8, not be prone to disease or pests, or be specifically mentioned as intolerant of heat or drought.

The minimum range of the width and height for each plant will be used for setting the dimensions of the plant at maturity and for fulfilling the performance standards of each Buffer Yard type listed in Section 7.4(l) of the Town of Knightdale Unified Development Ordinance.

Town of Knightdale Expressly Prohibited Trees

Prohibited Trees:

| | | |
|-----------------------|------------------------------------|----------------------------------------|
| Alder, Common | <i>Alnus glutinosa</i> | Only hardy to Zone 7 |
| Boxelder | <i>Acer negundo</i> | Brittle, bugs |
| Chestnut, American | <i>Castanea dentate</i> | Disease problems |
| Chestnut, Spanish | <i>Castanea sative</i> | Only hardy to Zone 7 |
| Elm, American | <i>Ulmus americana</i> | Dutch Elm disease |
| Elm, Siberian | <i>Ulmus pumila</i> | Brittle, elm leaf beetle |
| Hemlock, Eastern | <i>Tsuga canadensis</i> | Only hardy to Zone 7 |
| Hemlock, Carolina | <i>Tsuga caroliniana</i> | Only hardy to Zone 7 |
| Hornbeam, European | <i>Carpinus betulus</i> | Only hardy to Zone 7 |
| Horsechestnut, Common | <i>Aesculus hippocastanum</i> | Only hardy to Zone 7 |
| Linden, Littleleaf | <i>Tilia cordata</i> | Disease problems, only hardy to Zone 7 |
| Maple, Nikko | <i>Acer nikoense</i> | Only hardy to Zone 7 |
| Maple, Norway | <i>Acer platanoides</i> | Only hardy to Zone 7 |
| Maple, Silver | <i>Acer saccharinum</i> | Weak wood, shallow roots |
| Oak, Live | <i>Quercus virginiana</i> | Too cold in winter |
| Pear, Bradford | <i>Pyrus calleryana 'Bradford'</i> | Splitting problem |
| Pine, Austrian | <i>Pinus nigra</i> | Only hardy to Zone 7 |
| Pine, Eastern White | <i>Pinus strobus</i> | Only hardy to Zone 7 |
| Pine, Shortleaf | <i>Pinus echinata</i> | Shallow roots, pine beetle |
| Sycamore | <i>Platanus occidentalis</i> | Scorch and disease problems |