

Appendix A

Recommended Native Plants,
Non-Native Plants and Grass Seed Mixtures

- * May not be appropriate in some campus locations due to messiness or susceptibility to fungus, frost, deer, pests, etc.

REDWOOD FORESTS

Predominant native species at UCSC with commercial availability

	<u>Scientific Name</u>	<u>Common Name</u>
TREES:	<i>Acer macrophyllum</i>	Bigleaf Maple
	<i>Sequoia sempervirens</i>	Coast Redwood
	* <i>Pseudotsuga menziesii</i>	Douglas Fir
	* <i>Arbutus menziesii</i>	Madrone
	<i>Lithocarpus densiflora</i>	<i>Tanbark Oak</i>
	* <i>Umbellularia californica</i>	California Bay
SHRUBS:	<i>Corylus cornuta var. californica</i>	<i>Western Hazelnut</i>
	<i>Rosa gymnocarpa</i>	Wood Rose
	<i>Ribes sanguineum var. glutinosum</i>	<i>Red Flowering Currant</i>
	<i>Vaccinium ovatum</i>	<i>California Huckleberry</i>
GROUND COVER:	<i>Oxalis oregana</i>	Redwood Sorrell
	<i>Petasites frigidus var. palmatus</i>	<i>Coltsfoot</i>
	* <i>Polystichum munitum</i>	<i>Sword Fern</i>
	<i>Symphoricarpos mollis</i>	<i>Creeeping Snowberry</i>
	<i>Trillium ovatum</i>	Wake Robin
	<i>Whipplea modesta</i>	<i>Yerba De Selva</i>
	<i>Viola sempervirens</i>	<i>Evergreen Violet</i>
WET HABITAT GROUND COVER:	<i>Athyrium filix-femina</i>	Lady Fern
	<i>Equisetum spp.</i>	Horse Tail
	<i>Ranunculus californicus</i>	<i>Buttercup</i>
	<i>Woodwardia fimbriata</i>	<i>Giant Chain Fern</i>

NATIVE PLANTS ASSOCIATED WITH REDWOOD FORESTS

Not necessarily predominant species at UCSC

	<u>Scientific Name</u>	<u>Common Name</u>
TREES:	<i>Acer macrophyllum</i>	Big Leaf Maple
	* <i>Alnus rhombifolia</i>	White Alder
	* <i>A. rubra</i>	<i>Red Alder</i>
	<i>Quercus agrifolia</i>	Coast Live Oak
	<i>Torreya californica</i>	California Nutmeg
	<i>Cornus nuttallii</i>	Western Dogwood

	Quercus chrysolepis	Canyon Live Oak
	Quercus kelloggi	California Black Oak
	Quercus wislizenii	Interior Live Oak
SHRUBS:	Acer circinatum	Vine Maple
	Berberis pinnata	California Holly Grape
	Cornus sericea ssp. sericea	Redtwig Dogwood
	Rhododendron occidentale	Western Azalea
	* Myrica californica	Wax Myrtle
GROUND COVERS:	Adiantum aleuticum	Maidenhair Fern
	Aquilegia formosa	Western Columbine
	Dicentra formosa	Western Bleeding Heart
	Heuchera maxima	Coral Bells
	Iris douglasiana	Douglas' Iris
	* Sisyrinchium bellum	Blue Eyed Grass
	* Gaultheria shallon	Salal
	Asarum caudatum	Long-tailed Ginger

MIXED EVERGREEN FOREST

Predominant native species at UCSC with commercial availability

	<u>Scientific Name</u>	<u>Common Name</u>
TREES:	* Aesculus californica	California Buckeye
	* Arbutus menziesii	Madrone
	Lithocarpus densiflora	Tanbark Oak
	* Pseudotsuga menziesii	Douglas Fir
	Quercus agrifolia	Coast Live Oak
	Quercus wislizenii	Interior Live Oak
	Sequoia sempervirens	Coast Redwood
	* Umbellularia californica	California Bay
SHRUBS:	Corylus cornuta var. californica	Western Hazelnut
	* Rhamnus californica	Coffeeberry
	Rosa gymnocarpa	Wood Rose
	Vaccinium ovatum	Huckleberry
	Symphoricarpos albus	Snowberry
VINES:	* Lonicera hispidula	Hairy Honeysuckle
	* Rubus ursinus	California Blackberry
GROUND COVER:	Satureja douglasii	Yerba Buena
	Trillium ovatum	Wake Robin
	Stachys spp.	Hedge Nettle
	Juncus spp.	Rush
	Fragaria vesca ssp. californica	Wood Strawberry

NATIVE PLANTS ASSOCIATED WITH MIXED EVERGREEN FORESTS

Not necessarily predominant species at UCSC

	Scientific Name	Common Name
TREES:	<i>Acer macrophyllum</i>	Big Leaf Maple
	* <i>Alnus rubra</i>	Red Alder
	* <i>Alnus rhombifolia</i>	White Alder
	<i>Cercis occidentalis</i>	Western Redbud
	* <i>Heteromeles arbutifolia</i>	Toyon
	* <i>Platanus racemosa</i>	California Sycamore
	<i>Quercus chrysolepis</i>	Canyon Oak
	<i>Quercus garryana</i>	Oregon Oak
	<i>Quercus kelloggii</i>	California Black Oak
	<i>Torreya californica</i>	California Nutmeg
SHRUBS:	* <i>Arctostaphylos spp.</i>	Manzanita
	<i>Berberis pinnata</i>	California Holly Grape
	* <i>Ceanothus thyrsiflorus</i>	Blue Blossom
	<i>Corylus cornuta var. californica</i>	Western Hazelnut
	* <i>Mimulus aurantiacus</i>	Sticky Monkey Flower
	<i>Rhododendron occidentale</i>	Western Azalea
	<i>Calycanthus occidentalis</i>	Spice Bush
	<i>Carpenteria californica</i>	Tree Anemone
	<i>Garrya elliptica</i>	Coast Silk Tassel Bush
	<i>Ribes sanguineum var. glutinosum</i>	Red Flowering Currant
GROUND COVER:	<i>Adiantum aleuticum</i>	
	<i>Fragaria vesca var. californica</i>	Wood Strawberry
	<i>Heuchera micrantha</i>	Alum-Root
	<i>Polystichum munitum</i>	Western Sword Fern
	<i>Satureja douglasii</i>	Yerba Buena
	<i>Smilacina racemosa</i>	False Solomon's Seal
	<i>Smilacina stellata var. sessilifolia</i>	Slim Solomon's Seal
<i>Woodwardia fimbriata</i>	Giant Chain Fern	

CHAPARRAL / BACCHARIS SCRUB

Predominant native species at UCSC with commercial availability

	Scientific Name	Common Name
TREES:	* <i>Pinus attenuata</i>	Knobcone Pine
SHRUBS:	* <i>Arctostaphylos spp.</i>	Manzanita
	* <i>Ceanothus thyrsiflorus</i>	Blue Blossom
	* <i>Quercus wislizenii</i>	Interior Live Oak, Shru
	* <i>Rhamnus californica</i>	Coffeeberry
	* <i>Vaccinium ovatum</i>	Huckleberry
	* <i>Baccharis pilularis</i>	Coyote Brush
	* <i>Mimulus aurantiacus</i>	Sticky Monkey Flower
	<i>Eriodictyon californicum</i>	Yerba Santa
GROUND COVER:	<i>Helianthemum scoparium</i>	Sunrose

OTHERS:	* <i>Rubus ursinus</i>	California Blackberry
	Atriplex spp.	Quail Bush
	* <i>Dendromecon rigida</i>	Bush Poppy
	<i>Pickeringia montana</i>	Chaparral Pea
	<i>Garrya fremontii</i>	Fremont Silktassel
* <i>Heteromeles arbutifolia</i>	Toyon	

PLANTS IN CHAPARRAL FOR FIRE SAFETY

Acceptable native plant species

Scientific Name	Common Name
* <i>Arctostaphylos</i> spp.	Manzanita
<i>Cercis occidentalis</i>	Western Redbud
<i>Fremontodendron</i> spp.	Flannel Bush
<i>Prunus ilicifolia</i>	Hollyleaf Cherry
<i>Ribes malvaceum</i>	Chaparral Currant

GRASSLANDS

Native and Naturalized Planting Mix

Scientific Name	Common Name
<i>Centaurea cyanus</i>	Dwarf Cornflower
<i>Cheiranthus allionii</i>	Wallflower
<i>Chrysanthemum leucanthemum</i>	Ox-eye Daisy
<i>Clarkia amoena</i>	Farewell-to-Spring
<i>Clarkia unguiculata</i>	Mountain Garland
<i>Collinsia heterophylla</i>	Chinese Houses
<i>Eschscholzia californica</i>	California Poppy
<i>Gilia capitata</i>	Globe Gilia
<i>Gilia tricolor</i>	Bird's Eye
<i>Gypsophila muralis</i>	Baby's Breath
<i>Layia platyglossa</i>	Tidy Tips
<i>Linanthus grandiflorus</i>	Mountain Phlox
<i>Linum grandiflorum</i> var. Rubrum	Scarlet Flax
<i>Lupinus densiflorus</i> cv. Ed Gedling	Golden Lupine
<i>Lupinus succulentus</i>	Arroyo Lupine
<i>Lupinus vallicola</i>	Valley Lupine
<i>Nemophila menziesii</i>	Baby Blue Eyes
<i>Grindelia hirsutula</i>	Gumplant
<i>Solidago californica</i>	California Goldenrod
<i>Anaphalis margaritacea</i>	Pearly Everlasting
<i>Achillea millefolium</i>	Yarrow
<i>Plantago erecta</i>	Dwarf Plantain
<i>Oenothera hookeri</i>	Hookers Evening Primrose
<i>Sisyrinchium bellum</i>	Blue-eyed Grass

Nassella pulchra
Nassella lepida

Purple Needlegrass
Foothill Needlegrass

NATIVE PLANTS WITH ORNAMENTAL CHARACTERISTICS FOR INTERIOR COMPLEXES

	<u>Scientific Name</u>	<u>Common Name</u>
TREES:	<i>Acer macrophyllum</i>	Big Leaf Maple
	* <i>Aesculus californica</i>	California Buckeye
	* <i>Alnus rubra</i>	Red Alder
	* <i>Alnus rhombifolia</i>	White Alder
	* <i>Arbutus menziesii</i>	Madrone
	<i>Cercis occidentalis</i>	Western Redbud
	<i>Cornus nuttallii</i>	Western Dogwood
	* <i>Cupressus macrocarpa</i>	Monterey Cypress
	<i>Lithocarpus densiflora</i>	Tanbark Oak
	<i>Lyonothamnus floribundus</i>	Catalina Ironwood
	* <i>Pinus attenuata</i>	Knobcone Pine
	* <i>P. contorta</i>	Shore Pine
	* <i>P. muricata</i>	Bishop Pine
	* <i>P. radiata</i>	Monterey Pine
	* <i>Platanus racemosa</i>	California Sycamore
	* <i>Pseudotsuga menziesii</i>	Douglas Fir
	<i>Quercus agrifolia</i>	Coast Live Oak
	<i>Quercus kelloggi</i>	California Black Oak
	<i>Sequoia sempervirens</i> 'Soquel' or 'Aptos Blue'	Coast Redwood
	<i>Torreya californica</i>	California Nutmeg
	* <i>Umbellularia californica</i>	California Bay
SHRUBS:	* <i>Arctostaphylos</i> spp.	Manzanita
	* <i>Calycanthus occidentalis</i>	Spice Bush
	<i>Carpenteria californica</i>	Bush Anemone
	* <i>Ceanothus</i> spp.	Ceanothus
	<i>Cornus sericea</i> ssp. <i>sericea</i>	Redtwig Dogwood
	* <i>Dendromecon harfordii</i>	Island Bush Poppy
	<i>Eriogonum arborescens</i>	Island Buckwheat
	<i>E. giganteum</i>	St. Catherine's Lace
	<i>Fremontodendron californica</i>	Flannel Bush
	<i>Galvezia speciosa</i>	Island Bush Snapdragon
	<i>Garrya elliptica</i>	Silk Tassel Bush
	* <i>Heteromeles arbutifolia</i>	Toyon
	<i>Holidiscus discolor</i>	Ocean Spray
	<i>Lupinus arboreus</i>	Bush Lupine
	<i>Berberis aquifolium</i>	Oregon Grape
	* <i>Mimulus aurantiacus</i>	Sticky Monkey Flower
	* <i>Myrica californica</i>	California Wax Myrtle
	* <i>Prunus ilicifolia</i>	Hollyleaf Cherry
	* <i>P. lyonii</i>	Catalina Cherry
	* <i>Rhamnus californica</i>	Coffeeberry
	<i>Rhododendron occidentale</i>	Western Azalea
	<i>Rhus integrifolia</i>	Lemonade Berry
	<i>Ribes sanguineum</i> var. <i>glutinosum</i>	Red Flowered Currant

	R. speciosum	Fuchsia Flower Gooseberry
	<i>Rubus parviflorus var. velutinus</i>	Thimbleberry
	Salvia leucophylla	Purple Sage
	* Sambucus caerulea	Blue Elderberry
	Spirea densiflora	Mountain Spirea
	* Vaccinium ovatum	California Huckleberry
GROUND COVER:		
	Arctostaphylos edmundsii	
	A. 'Emerald Carpet'	
	A. 'Carmel Sur'	
	A. hookeri 'Monterey Carpet'	
	A. 'Point Reyes'	
	A. uva-ursi 'Radiant'	
	Baccharis pilularis 'Pigeon Point' or 'Twin Peaks'	
	* Ceanothus gloriosus 'Anchor Bay' or exaltus 'Emily Brown' or porrectus	
	C. griseus 'Yankee Point'	
	C. 'Joyce Coulter'	
	Eriogonum grande var. rubescens	Island Buckwheat
	* Gaultheria shallon	Salal
	Ribes viburnifolium	Evergreen Currant

RECOMMENDED NON-NATIVE PLANTS

Currently in use at developed parts of campus

	<u>Scientific Name</u>	<u>Common Name</u>
NON-NATIVE TREES:	* <i>Acacia spp.</i>	Acacia
	<i>Acer palamatum</i>	Japanese Maple
	<i>Albizia spp.</i>	
	<i>Cedrus spp.</i>	Cedar
	* <i>Cornus capitata</i>	Evergreen Dogwood
	<i>Cupressus macrocarpa</i>	Monterey Cypress
	<i>Ginkgo biloba</i>	Maidenhair Tree
	* <i>Gleditsia spp.</i>	Honey Locust
	<i>Jacaranda mimosifolia</i>	Jacaranda
	* <i>Liquidambar</i>	Sweet Gum
	* <i>Liriodendron tulipifera</i>	Tulip tree
	<i>Magnolia spp.</i>	Magnolia
	<i>Maytenus</i>	Mayten
	<i>Melaleuca spp.</i>	Heath Melaleuca
	<i>Metasequoia glyptostroboides</i>	Dawn Redwood
	<i>Myoporum spp.</i>	Myoporum
	* <i>Olea spp.</i>	Olive (fruitless)
	<i>Platanus acerfolia</i>	London Plane Tree
	<i>Podocarpus gracilior</i>	Fern Pine

NON-NATIVE
SHRUBS:

<i>Podocarpus macrophyllus</i>	Yew Pine
Prunus spp.	
Prunus yedoensis 'Akebono'	Akebono Flowering Cherry
Pyrus spp.	Ornamental Pear
Quercus suber	Cork Oak
Tristania spp.	Tristania
Acacia spp.	Acacia
Asparagus densiflorus 'Sprengeri'	Sprenger Asparagus varieties
Azalea	
* <i>Berberis</i>	Barberry
* <i>Camellia</i> spp.	
* <i>Chaenomeles</i>	Flowering Quince
Choisya ternata	Mexican Orange
* <i>Cistus</i> spp.	Rockrose
<i>Correa</i> spp.	Australia Fuchsia
* Cotinus	Smoke tree
* <i>Cotoneaster</i> spp.	
Daphne	Daphne
Diosma	Breath of Heaven
* <i>Echium fastuosum</i>	Pride Of Madeira
<i>Eleagnus</i> spp.	
Erica spp.	Heather
* Escallonia spp.	
Euryops spp.	
Fremontodendron spp.	Fremontia
<i>Felicia amelloides</i>	Blue Margarite
<i>Feijoa sellowiana</i>	Pineapple Guava
<i>Grevillea</i> spp.	
Grewia	Starflower
Hakea spp.	Hakea
* Hebe spp.	
* <i>Hydrangea</i>	Hydrangea
<i>Ilex</i> spp.	Holly
Iris spp.	Iris
* <i>Juniperus</i> spp.	Juniper
<i>Kerria Japonica</i>	Kerria
Lavandula spp.	Lavender
Leptospermum spp.	Tea Tree
Ligustrum spp.	Privet
<i>Leonotis leonurus</i>	Lion's Tail
Osmanthus spp.	Osmanthus
<i>Nandina domestica</i>	Heavenly Bamboo
Pieris japonica	Lily-Of-The-Valley Shrub
* <i>Pittosporum</i> spp.	
Podocarpus spp.	
Rhododendron	varieties
Rhus ovata	Sugar Bush
Rosmarinus spp.	Rosemary
Salvia spp.	Sage
<i>Sarcococca</i> spp.	
* Sollya	Australian Bluebell
Tecomaria capensis	Cape Honeysuckle

	<i>Tagetes lemmonii</i>	Marigold
	Teucrium	Germander
	* <i>Trachelospermum jasminoides</i>	Star Jasmine
	* <i>Viburnum spp.</i>	
	Westringia	
	* Xylosma	Xylosma
NON-NATIVE VINES & GROUND COVERS:	Ajuga	Carpet Bugle
	Clematis	varieties
	Coprosma	varieties
	Ficus	varieties
	Grewia	Starflower
	* <i>Hardenbergia violacea</i>	<i>Hardenbergia</i>
	* Hedera spp.	Ivy
	Hibbertia scandens	Guinea Gold Vine
	* Hypericum	St. Johnswort
	Jasminum spp.	Jasmine
	Lonicera spp.	Honeysuckle
	Pachysandra	Japanese Spurge
	Parthenocissus spp.	Creeper / Boston Ivy
	Tecomaria capensis	Cape Honeysuckle
	* Vinca	Myrtle
	Wisteria	Wisteria

- * May not be appropriate in some campus locations due to messiness or susceptibility to fungus, frost, deer, pests, etc.

RECOMMENDED TURF GRASS SEED MIX FOR UCSC CAMPUS

A. Turf Grass

- Varieties of blue grass and varieties of rye grass that have been successfully blended and used on campus are as follows:

Blue Grass	Rye Grass
Glade	Britestar
Merit	Manhattan III
Majestic	Blazer
Rugby	Pennant
Gnome	Quickstart
	Laredo

The proper blend between blue grass and rye grass should be 75% *rye* grass to 25% *blue* grass by weight.

- Turf type Tall Fescue is *acceptable* as a less water consumptive alternative turf material. Three varieties of fescue should be blended with a small percentage (~5%) of aggressive blue grass. Varieties used: Coyote, Jaguar, Tulsa.

B. Native Pasture: refer to "Grasslands", above.

C. Erosion Control Grass Mix

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Mix	# per acre	%
Palestine Orchard Grass	12	25
Luna Pubescent Wheat Grass	24	50
Blando Brome Grass	12	25
Total	48	100

- Meadow Erosion Mix (prefer locally collected seed)*

Mix	# per acre
California Brome (<i>Bromus carinatus</i>)	12-18
Meadow Barley (<i>Horedum brachyantherum</i>)	12-18
Optional addition: Blue Wild Rye (<i>Elymus glaucus</i>)	12

D. Hydroseed: apply at the following rates:

	# per acre
Mulch with seed	1000
6-20-20 fertilizer	400
Binder	80-100