In lieu of the SB Botanic Garden assignment, this is a project can be submitted for extra credit points that will be added on to your Museum of Natural History assignment. Points earned will be a function of quality; thus, a submission will not guarantee full extra credit points, but is subject to partial credit. For example, if your Museum assignment was scored as 90 out of 100 (i.e., a 90% score), if you complete this extra credit and do a good job, I will add 10 points on to your score (to give you a 100%). Since the assignment accounts for 15% of your overall score, this extra credit can make a difference in your course grade.

Objective:
The purpose of this assignment is to expose you to some of the unique plants (flora) of the Channel Islands, many examples of which grow here on the UCSB campus. Your assignment is to draw 5 island plant species (include your Name, Perm #, and staple your drawings together). Each species will be worth 2 points. The species you sketch must occur on one or more of the Channel Islands, but you are not restricted to endemics.

To locate island plant species on campus, use the Campus Flora Interactive Map by:
1. Go to http://ccber.lifesci.ucsb.edu/collections/flora/
2. Scroll to the bottom of the page and select ‘Interactive Web Map’
3. Zoom into the campus map using the zoom function.
4. Go to ‘Query’ in the upper left corner and select ‘Genus.’
5. Select the genus of interest, e.g., Quercus, to find where all of the oak trees are located on campus. A list of species will appear in the Results box and corresponding ‘thumbtacks’ representing individuals will appear on the campus map itself.
6. Because you cannot search at a finer taxonomic resolution than genus, you will have to go through the list of species to locate the island taxa. In some cases, such as the Ironwood, the genus is an island endemic. By moving your mouse over the thumbtack, the species name will be given. Additionally, you can hold the mouse over the name of the species of interest in the search results, e.g., Island Oak, and the corresponding thumbtack for that individual will turn from blue to yellow. Note that there may be several individuals of this species on campus, so you may need to scroll through the search results to find other individuals on campus.

It will be up to you to find out what island species have been planted on campus, but here are three island endemics that you should be able to find with ease: Island Oak (Quercus tomentella), Santa Cruz Island Ironwood (Lyonothamnus floribundus subsp. aspleniiifolius), and the Torrey Pine (Pinus torreyana). You are not limited to these species and, furthermore, I challenge you to locate other island plants.
Some island species to use as a guide in your search:

**Trees:**
Santa Catalina Island Ironwood - *Lyonothamnus floribundus* subsp. *floribundus*
Santa Cruz Island Ironwood - *Lyonothamnus floribundus* subsp. *aspleniifolius*
Island Oak - *Quercus tomentella*
Torrey Pine - *Pinus torreyana*
Bishop Pine - *Pinus muricata*
Guadalupe Cypress - *Cupressus guadalupensis*

**Shrubs:**
Island Barberry - *Berberis pinnata insularis*
Bladderpod - *Isomeris arborea*
Giant coreopsis - *Coreopsis gigantea*

**Shrubs (cont.):**
Toyon (aka Hollywood) - *Heteromeles arbutifolia*
Santa Cruz Island Manzanita - *Arctostaphylos insularis*
Island Manzanita - *Arctostaphylos tomentosa* subsp. *insulicola*
McMinn’s Manzanita - *Arctostaphylos viridissima*
Northern Island Bush Poppy - *Dendromecon rigidus* subsp. *harfordii*
Santa Cruz Island Buckwheat - *Eriogonum arborescens*
Island Buckwheat - *Eriogonum grande* subsp. *grandes* (in the Meadow section)
Island Tree Mallow - *Lavatera assurgentiflora*
Santa Cruz Island Gooseberry (also called currant) - *Ribes thacherianum*
Northern Island Hazardia - *Hazardia detonsus*
Island (Feltleaf) Ceanothus - *Ceanothus arboreus*
Island Big-Pod Ceanothus - *Ceanothus megacarpus* subsp. *insularis*
Bush Monkeyflower - *Mimulus longiflorus*
Catalina Cherry - *Prunus illicifolia* subsp. *lyonii*
Island Monkeyflower - *Mimulus flemingii*

**Succulents:**
Live-forevers - *Dudleya* sp. (many species and endemics occur for this group)
Chollas - *Opuntia* sp. (many species and endemics occur for this group)

**Perennial Herbs and Grasses:**
*Nassella* sp. - native perennial grasses
Island Alumroot - *Heuchera maxima*
Brandegee’s Sage - *Salvia brandegei*
Island Morning Glory - *Calystegia macrostegia* var. *macrostegia*
Island Poppy - *Eschscholzia ramosa*

**Annual Herbs:**
Guadalupe Island Lupine - *Lupinus guadalupensis*
Island Gilia - *Gilia nevinii*