CAPSTONE PROJECT 2021

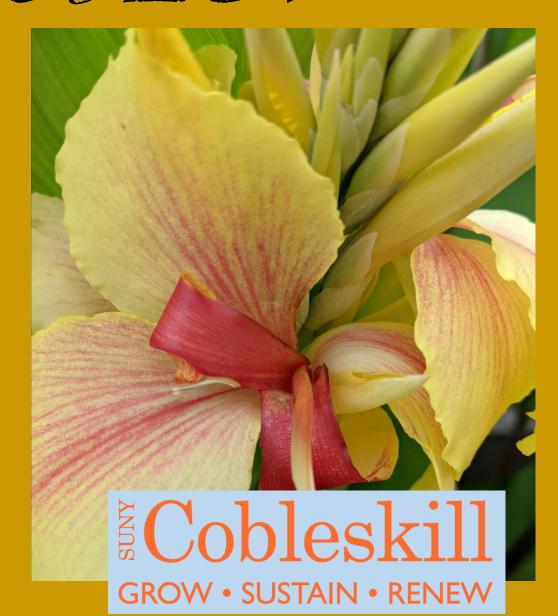
Deirdre S. Hickey MPS Candidate, Dec 2021 Dr. Jeffrey A. Perry, Advisor Ethan Knickerbocker, Student (Tester), SUNY Cobleskill



Landscape Plant ID – 2 CR LANDSCAPE APPRENTICESHIP

&

LANDSCAPE
DEVELOPMENT
ONLINE
CERTIFICATE DEGREE



History of process:

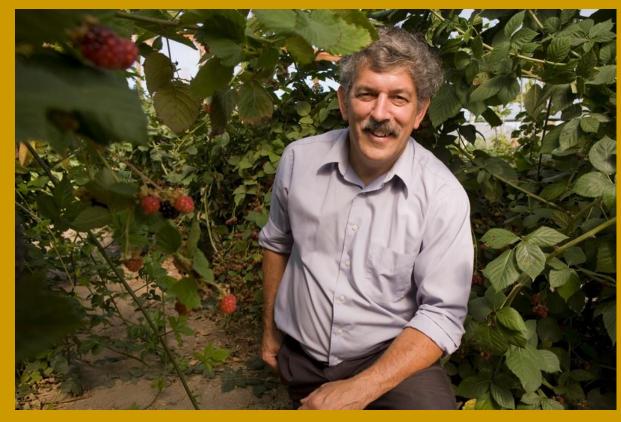
Spring 2020 - Plant Science Department Chair, Timothy Marten asked me, as instructor of Woody Plant Material ID at the time, to create an online Landscape Plant ID course. The request came as a result of research on Tim's part on a concept he has been developing.



I applied to Cornell CALS and was applying to University of Nebraska, when Cornell's answer came.



The concept for this capstone was discussed with Dr. Marvin Pritts, Director of Masters of Professional Studies (MPS) and Tara Reed, Events Coordinator MPS at Cornell University, CALS. (College of Agriculture and Life Sciences) at my entry interview. (I took the liberty of using photos from Cornell's website here.)





Cobleskill







Cobleskill Moodle

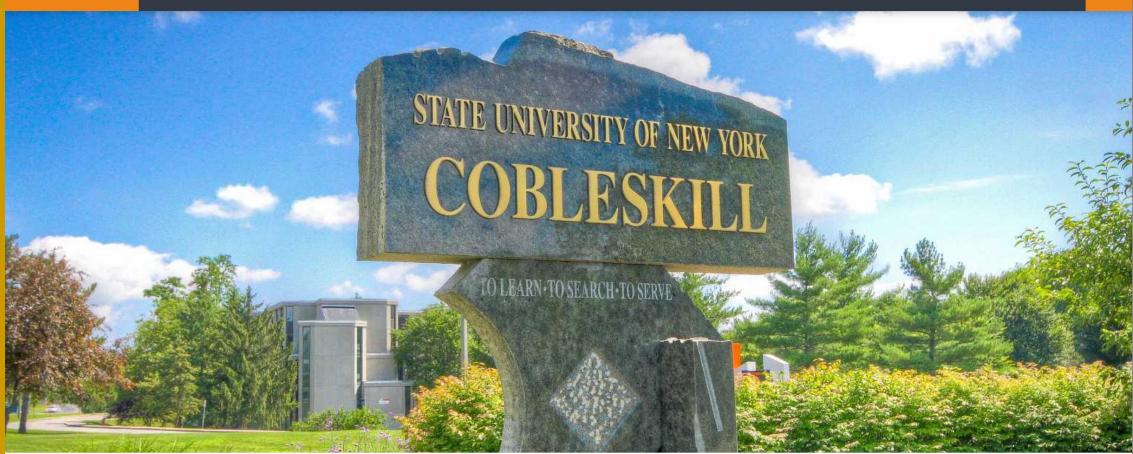
Dashboard

Library

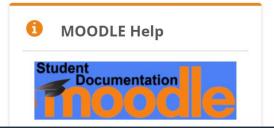
CobyNet ▼

Academics ▼

nics ▼









Cobleskill Moodle

Home > Dashboard

Dashboard

Library

CobyNet ▼

Academics ▼

Customize this page



Course overview

▼ All (except removed from view)



Miscellaneous

Landscape Plants ID - MPS Project



Fall 2021

ORHT-121-20749-Woody Plant Materials (C) (Fall 2021)



∷ Summary

↓ Eourse name

Navigation

Home



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 - Middle States
 - CC-111
 - ▶ Faculty Documentation
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 - ▶ RegSupport21
 - More...



Summer 2021

Landscape Management (Summer 2021)

Hidden from students

Student Help





Cobleskill Moodle Library CobyNet ▼ Dashboard Academics ▼

Home > My courses > MPS Project



Announcements



Syllabus



Plant List



Welcome to Plant ID

ASSSIGNMENTS



#1 Visit a wholesale nursery



Final Lab Project

EXAMS

All exams are cumulative. The language used in the exams, to test your ability to remember that language for the 'field', will be used to ask you questions.

EX. What is the term for the distal end of the leaf.

In another question you may be asked: The shape of the apex is usually distinct from the shape of the base. Which term is the apex, which is the base?: with choices of terms for apex and base.

Keep up with the terms throughout the semester, it will help you once you find that job or in continuation of the one you have!



Lecture Exam #1

Hidden from students



Lecture Eyam #2

Turn editing on









Administration

Course administration

Edit settings

Users

Filters

Reports

Gradebook setup

Badges

1 Backup

▲ Restore

№ Import

Reset

Ouestion bank

Repositories

NOMENCLATURE



Rules for nomenclature



what to expect in writing botanical names for this class

MORPHOLOGY



Morphology



Morphology - Conifers - Evergreens



Morphology Floral



Morphology Inflorescences



Morphology Leaf Bases



Morphology Leaf Margins



Morphology Leaf Shapes



Morphology Leaf Simple



Morphology Leaf Compound



Morphology Stem



Morphology PowerPoint PDF

these links work when the student is signed into the Cobleskill network. Ethan was kind in testing these links from the student view for me. Once it was realized that they work, I incorporated some into my Woody Plant ID course for their final.

SOIL



LECTURE - Plant Forms - Soil

TREES



View Sent Messages









h Navigation

Home



- Site pages
- My courses
 - ▶ ORHT-121-20749-202109
 - ▶ Employee Internal Control Training (2021/22)

MPS Project

Participants

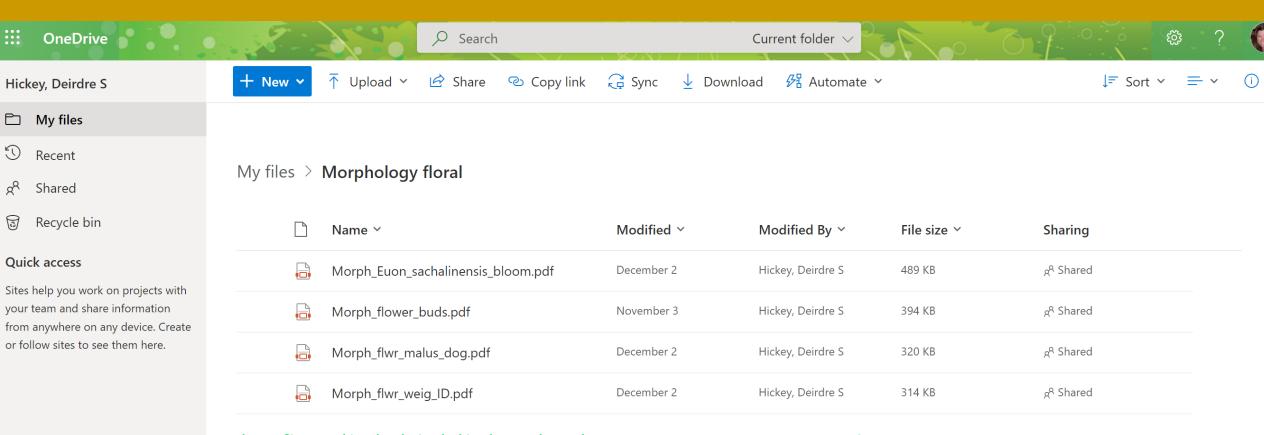


A Competencies

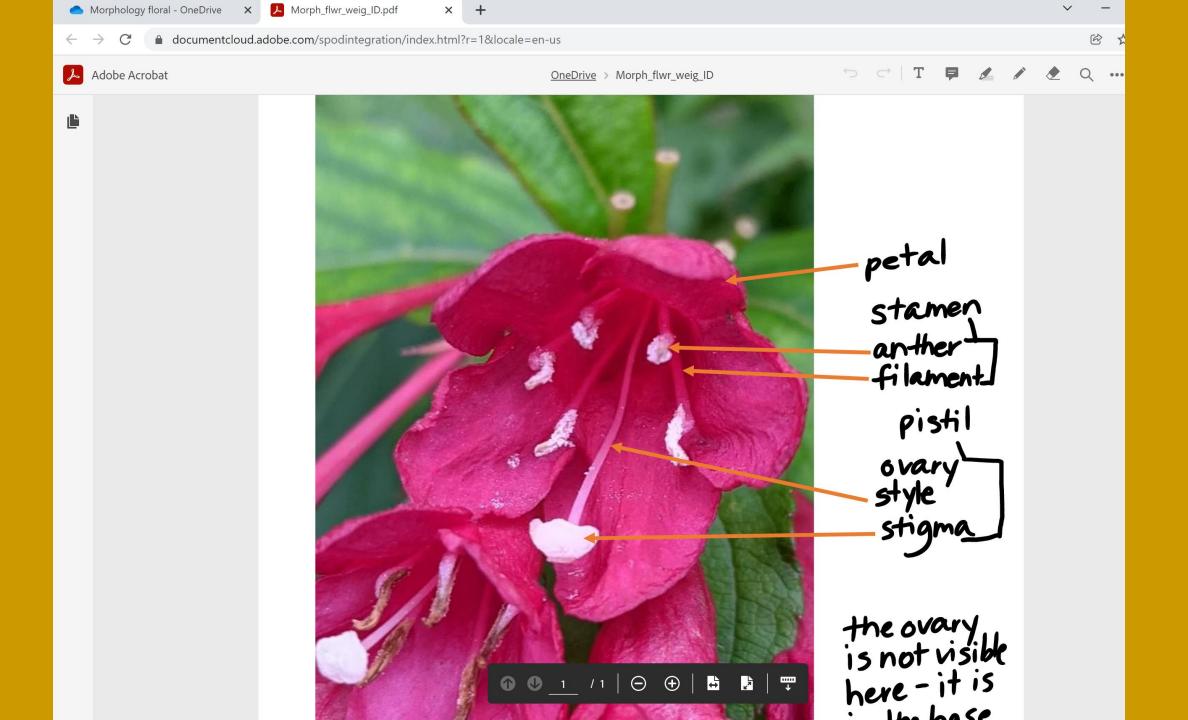


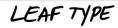
▶ General

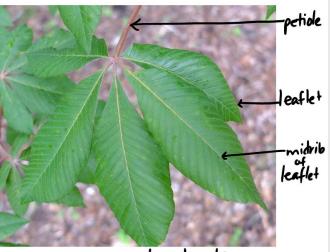
- ASSSIGNMENTS
- EXAMS
- ▶ NOMENCLATURE
- ▶ MORPHOLOGY
- SOIL
- ▶ TREES
- ▶ SHRUBS
- ▶ HERBACEOUS PERENNIALS
- ANNUALS
- ▶ BULBS
- Topic 11
- Topic 12
- ▶ Fiscal Affairs and Strategic Planning (FASP) Commi...
- Middle States
- CC-111



the first link highlighted takes you to my OneDrive, once there, the student has the option of perusing several links taking them to the next level. Photos, that I took to highlight certain aspects of plant material in helping with identification qualities, that are hand labeled.



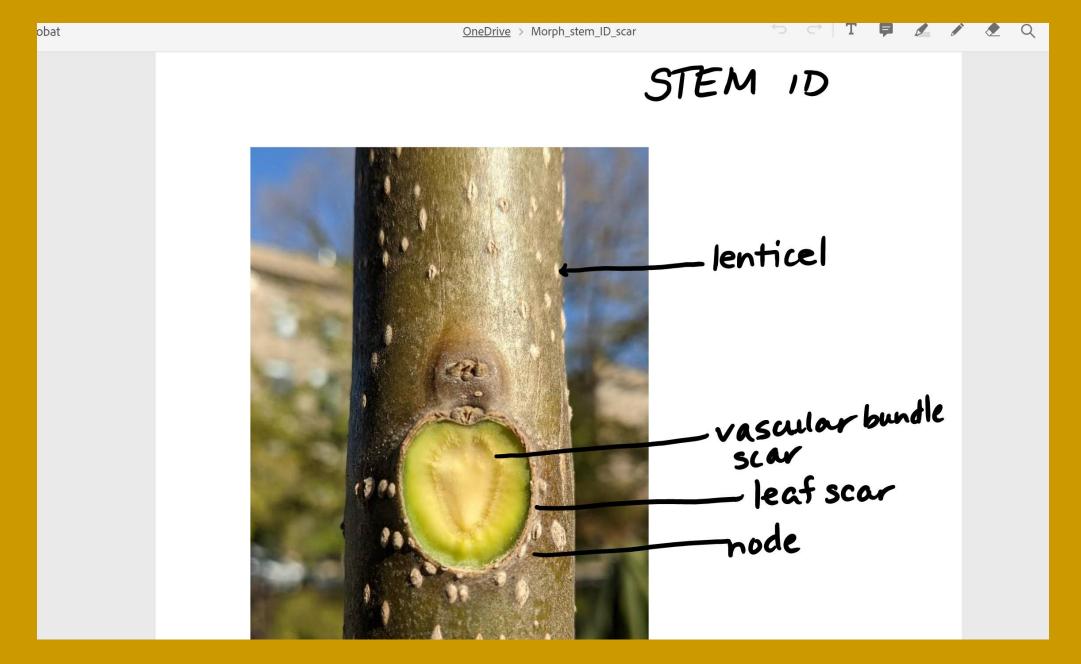




compound palmate



radial point of attachment Aesculus parviflora



Some photos turned out simply perfect!





thorn.

protrusion
of modified
stem, sharp,
pointed.
used by
plant-for
protection



bramble.

protrusions of modified leaves on a stem, sharp, pointed, used by

SOIL

LECTURE - Plant Forms - Soil

TREES

SHRUBS

I have a few lectures prepared already, enhanced to assist with plant ID at every level. Am I finished with any of these?

No. Are we ever done? Don't we always find something more, or a bit more in detail, to add. I would like to think of this as a work in progress.

HERBACEOUS PERENNIALS

Herbaceous Perennials ID photos

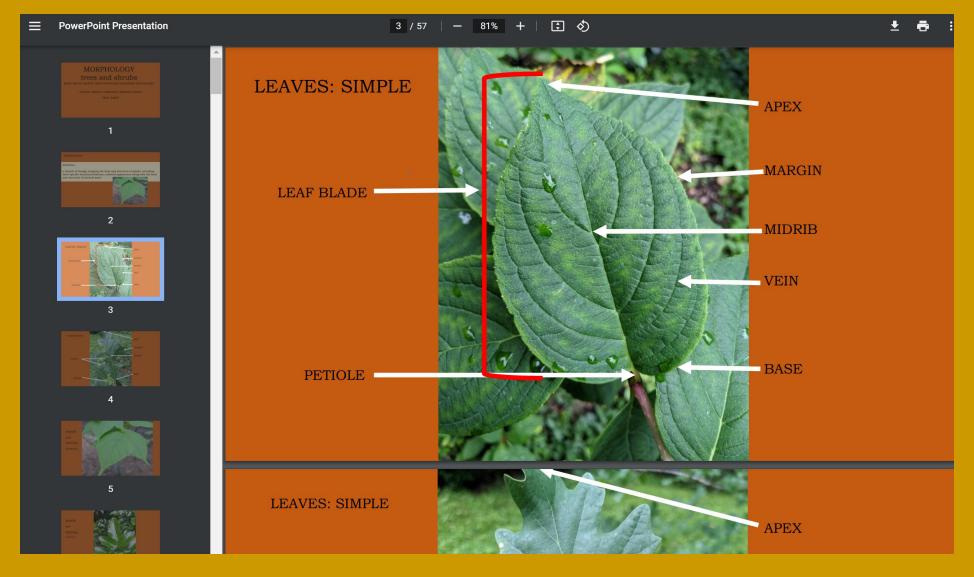
ANNUALS

ANNUAL ID Photos

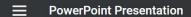
BULBS

- ▶ SHKUBS
- HERBACEOUS PERE
- ANNUALS
- BULBS
- ▶ Topic 11
- Topic 12
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Accessibility report



My idea was to utilize different photos in every aspect of these presentations. Always presenting a new leaf, flower, attachment point, stem, whatever it may be. That is how it is outside. Real life learning online, in your room, at your house, can you go outside and find any of these plants?



33 / 57 | - 81% + | 🕏 🔕















33



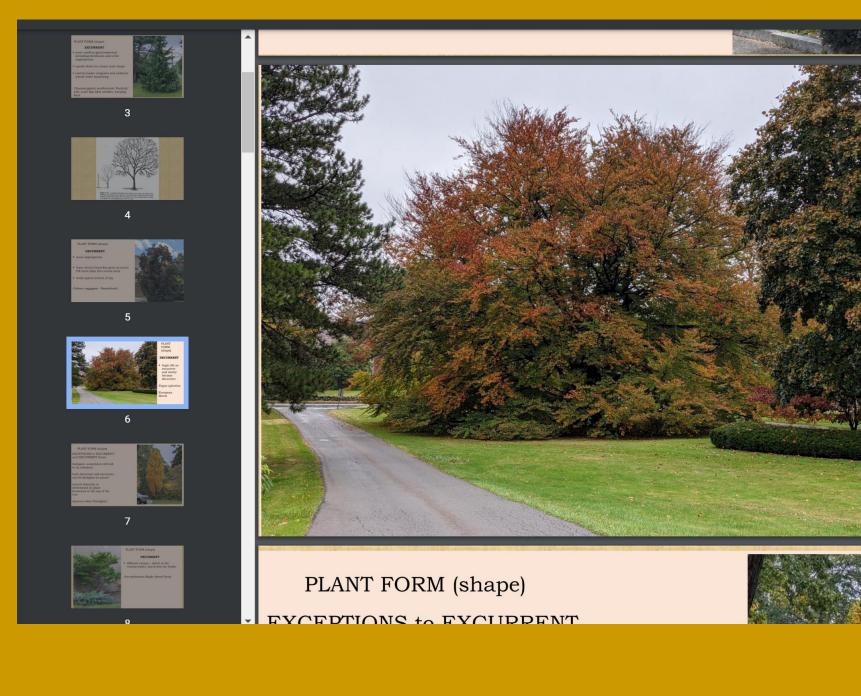
simple leaf: single leaf blade able to produce chlorophyll through photosynthesis, attached singly at a node





compound leaf: three or more leaflets attached to a petiole by a rachis, three types of compound leaves!





PLANT FORM (shape)

DECURRENT

 begin life as excurrent and slowly become decurrent

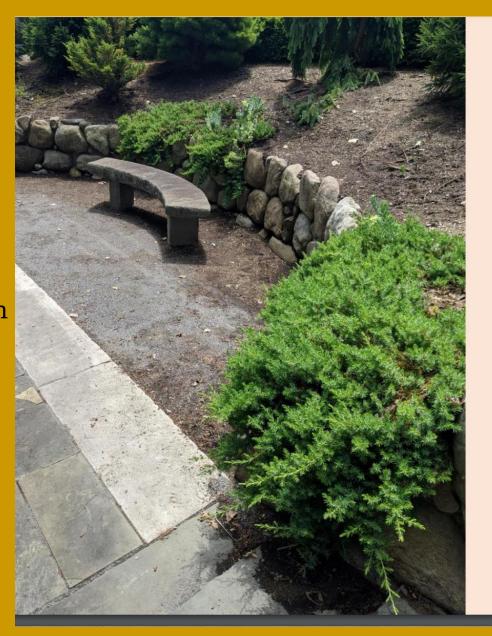
Fagus sylvatica

European Beech

using my own photos, I am able to show the immensity of a plant, this being an important landscape plant. If you look in the bottom right, you will see a hedge, it's 5' tall.

Again,

Some of the photos are from my own job sites, others are from the Cobleskill campus. This area is in the sunken garden, part of our conifer collection. It is located in front of CANR, the Center for Agriculture and Natural Resources.



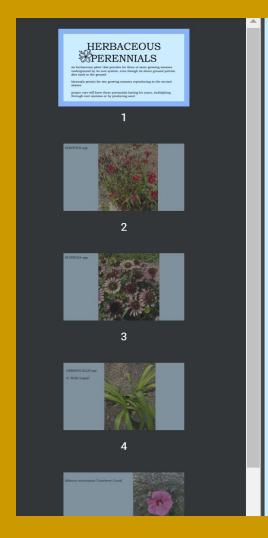
PLANT FORM (shape)

EXCEPTIONS to EXCURRENT and DECURRENT forms

weeping, prostrate

Juniperus procumbens 'Nana'

Nana Horizontal Juniper



HERBACEOUS PERENNIALS

an herbaceous plant that persists for three or more growing seasons underground by its root system, even though its above ground portion dies back to the ground

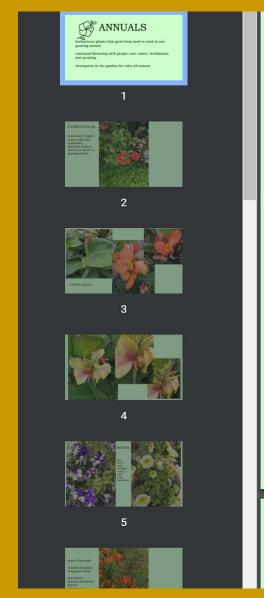
biennials persist for two growing seasons reproducing in the second season

proper care will have these perennials lasting for years, multiplying through root systems or by producing seed

There are Powerpoints dedicated solely to each plant group that will be presented, some of the photos coming from my garden. Trees, shrubs, herbaceous perennials, annuals (Zone 3 – 6) and bulbs.



All plant material presented is properly labeled with botanical and common (regional) names. Specific requirements for the needs of each plant will be presented and discussed. Nicknames given to plants by landscapers will also be addressed.





herbaceous plants that grow from seed to seed in one growing season

continual flowering with proper care: water, fertilization and pruning

intersperse in the garden for color all season

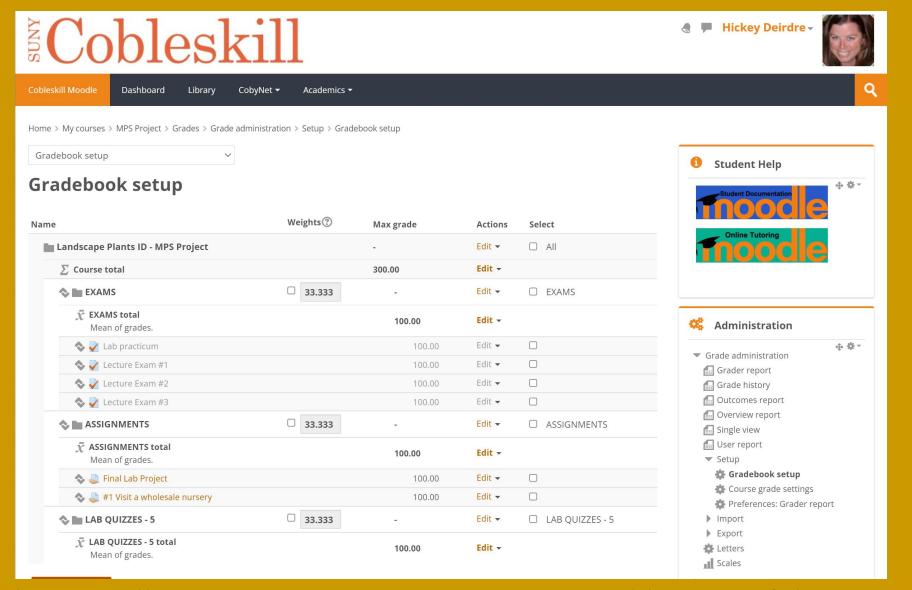
CALIBRACHOA spp.



Annuals, a difficult group at best, it will include some tropicals used in creation of planters for certain applications.



Some plants cross over from annual to corms, tubers and bulbs....plants are fascinating....we should tell more people!



The gradebook in Moodle is easy to use. An instructor can add to any of the areas they create. More assignments will be added, along with some of the grades, but most of the grades will autofill as the program is online. The student has the capacity for keeping easy track of their grade through the semester.



Thank you for the opportunity to present my
Masters of Professional Studies in Integrative Plant Sciences
Capstone Project to you from
Cornell School of Agriculture and Life Sciences.

If you have any questions, suggestions, or editing please feel free to contact me through the following: cell 585-278-4678

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I can also be found on LinkedIn or Instagram (irish56biker)