

Class: **Horticulture 144 – Landscape Irrigation Section 4618**
Semester: Spring 2020
Lecture/Lab: Fridays 1:00pm – 5:00pm, Lark Hall – Room 2086
Saturday excursions: Saturday 4/4, 4/18, 5/9 9:00am – 3:00pm
Field Excursions- various dates TBD

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Required Texts: [Rainbird, Landscape Irrigation Design Manual Digital \(& catalog\) Bookstore \\$16.00](#)

Digital Version [Free PDF http://rainbird.com/documents/turf/IrrigationDesignManual.pdf](http://rainbird.com/documents/turf/IrrigationDesignManual.pdf)

No Digital Version National Association of Landscape Professionals, Landscape Training Manual for Irrigation Technicians
ISBN 978-0-9840219-1-8 Approximately \$90 plus tax for purchase or a limited number of books may be checked out and returned at the end of the semester.

Digital Version [Qualified Water Efficient Landscaper Reference Manual QWEL Sonoma-Marín Saving Water Partnership version \\$23.47](#)

[Free PDF Download Digital Version available on QWEL.net](#)

Digital Version Download WUCOLS III manual
<https://water.ca.gov/LegacyFiles/wateruseefficiency/docs/wucols00.pdf>

Other miscellaneous handouts provided

DATE

TOPIC (tentative)

1/17/2020 Course Introduction, go over syllabus
Lecture Understanding Basic Hydraulics Rain Bird Ch 1
Lab Parts ID
Homework Read Chapters 1 and 2 in Rain Bird

All further dates subject to change, dependent on NALP manual availability and flow of class

1/24/2020 Go over results of Rain Bird chapter 1
Lecture Rain Bird chapters 2 & 3
Intro to CIMIS ,AW, Precipitation ,Soil ,Slope, Eto
Homework Read Rain Bird chapter 3 and do page 23, Go to <https://cimis.water.ca.gov> and create a free account and identify the closest *active* station to your home.

1/31/2020 Lecture Rain Bird chapter 4 and do chapter together
Lab TBD
Homework review Rain Bird chapter 4 and Read chapter 5-all. Attempt page 40,47,52

2/7/2020 Go over Rain Bird chapter 5 together pg 40,47,52
Backflow lecture
Sprinkler lab/ drip lab
Homework Read Rain Bird chapter 6 & NALP (green book) read chapters 4 & 5

2/14/2020 No Class – Lincoln’s Day Holiday

- 2/21/2020 Review Rain Bird chapter 6
Lecture Rain Bird chapter 7 Homework
review Rain Bird chapter 7 Lecture chapter 6
in NALP manual
- 2/28/2020 review Rain Bird ch 7 do page 71 together
Lecture Rain Bird chapter 9 and NALP chapters 2 & 3
NALP chapters 2 & 3
Homework review Rain Bird chapter 9 and read NALP chapters 2 & 3
- 3/6/2020 Drip lecture, Wyatt field trip
Lab at Wyatt
- 3/13/2020 Drip lecture and **midterm**
Homework read drip handouts, numerous, TBD

3/20/2020 HOLIDAY – Spring Break – No classes

- 3/27/2020 Review drip concepts
Lab drip
- 4/3/2020 Drip continued, visit jobsite to do any preemptive work
Lab valve prefab

4/4/2020 Field Excursion, meet at classroom then 437 Elliott 9:00 am to 3:00 pm, install POC, valves and trench to drip uprights

- 4/10/2020 Drip continued
Intro QWEL, Lecture chapters 1 & 2
Homework QWEL chapters 1 & 2
Lab TBD
- 4/17/2020 QWEL Lecture chapters 3 & 4
Homework QWEL review and do chapters 3 & 4
Lab, visit jobsite, possibly work onsite

4/18/2020 Field Excursion, meet at classroom then 437 Elliott 9:00 am to 3:00 pm
Install irrigation lines, controller, misc

- 4/24/2020 QWEL Lecture chapters 5 & 6
Homework review and do QWEL chapters 5 & 6, register for QWEL exam <https://www.qwel.net/pub/class/158>
Review chapters 1-2 for final
- 5/1/2020 QWEL Lecture chapters 7 & 8
Review QWEL chapters 3-4 for final
Lab do audit on paper
Homework review and do QWEL chapters 7 & 8 and do audit homework handout

5/8/2020 Review QWEL chapter 7/8 and audit handout, Lecture QWEL Chapter 9
Controller lab

Homework review QWEL chapters 7, 8 & 9 for final

5/9/2020 QWEL Audit, Drip audit, *labapalooza*, possibly work at 437 Elliott

5/15/2020 Go over QWEL chapter 10 and any makeup, prep for final

Homework study for final

5/22/2020 FINAL EXAM: time TBD, go over QWEL chapter 10 then take test