**Grading** 

Irrigation Principles & Practices 12:10 - 1:00 PM T,R Lecture Veihmeyer Hall 116 1:10 - 4:00 PM R Laboratory Instructor(s): Professor Isaya Kisekka

## **COURSE SCHEDULE**

Week 1	
	Lecture 1: Soil physics
	Lecture 2: Water and salinity stress
	LAB 1: Measuring salinity using Electromagnetic Induction
Week 2	
	Lecture 3: Geophysical application in Ag water management
	Lecture 4: Soil mapping
	LAB 2: Using ERT Tomography to measure root zone soil water
Week 3	
	Lecture 3: Evapotranspiration and irrigation scheduling
	Lecture 4: Sprinkler irrigation
<b>TTT 1</b> 4	LAB 3: Design a sprinkler irrigation system using IrriCAD
Week 4	
	Lecture 5: Drip irrigation
	Lecture 6: Landscape/Turf Irrigation
Weels 5	LAB 4: Design a drip irrigation system using irriCAD
week 5	Lastura 7: Mainline design
	Lecture 7. Mainline design
	LAR 5: Design a mainline using IrriCAD
Week 6	LAD 5. Design a mannine using ITTCAD
WCCK 0	Lecture 9. Fertigation management
	Lecture 10: Hydroponic irrigation systems
	LAB 6: Field visit to UC Davis greenhouses and Campbell Track
Week 7	
<u>··· · · · · · · · · · · · · · · · · · </u>	Lecture 11: Midterm review
	Lecture 12: Midterm
	LAB: No lab
Week 8	
	Lecture 13: Recycled water reuse for irrigation
	Lecture 14: Guest lecture
	LAB 7: Measuring salinity and sodicity in recycled water
Week 9	
	Lecture 15: Crop yield response to water
	Lecture 16: Irrigation economics
	LAB 8: Model crop yield response to irrigation
<u>Week 10</u>	
	Lecture 17: Environmental impact of irrigated agriculture
	Lecture 18: Final exam review
Elizate Weil	LAB:
Finals week	Data and time of final arous to be determined

4 Units

Spring

## HYD 110

Irrigation Principles & Practices 12:10 - 1:00 PM T,R Lecture Veihmeyer Hall 116 1:10 - 4:00 PM R Laboratory Instructor(s): Professor Isaya Kisekka

Lab: 45% Midterm: 25% Final: 25% Attendance: 5% 4 Units