Grading

Evapotranspiration Principles, Measurement & Modeling 3:10 - 4:00 PM T,R Lecture Veihmeyer Hall 116 4:10 - 5:00 PM R Laboratory Instructor(s): Professor Isaya Kisekka

COURSE SCHEDULE

Week 1	
	Lecture 1: Basic concepts of evapotranspiration
	Lecture 2: Basic concepts of evapotranspiration
	LAB 1: Develop a script or spreadsheet for computing reference ETo
Week 2	
	Lecture 3: Evapotranspiration estimation using crop coefficient approach
	Lecture 4: Application of crop coefficient in Ag water management
	LAB 2: Estimation of crop coefficient
Week 3	I I I I I I I I I I I I I I I I I I I
	Lecture 3: Evapotranspiration measurement using soil water balance
	Lecture 4: Guest lecture
	LAB 3: Make soil water measurement using a neutron probe
Week 4	
<u></u>	Lecture 5: Evapotranspiration measurement using lysimeters
	Lecture 6: Weighing versus drainage lysimeters
	LAB 4: Processing lysimeter data to obtain ET
Week 5	
<u></u>	Lecture 7: Evapotranspiration measurement using eddy covariance
	Lecture 8: Processing flux data into ET
	LAB 5: Using EddyPro and Toyi flux data
Week 6	2112 01 0 5 mg 2 a a f 1 1 0 and 1 0 11 man a and
<u></u>	Lecture 9: Evapotranspiration measurement using surface renewal
	Lecture 10: Guest lecture
	LAB 6: Processing surface renewal data into ET
Week 7	
<u>······</u>	Lecture 11: Midterm review
	Lecture 12: Midterm
	LAB: No lab
Week 8	
<u></u>	Lecture 13: Remote sensing of evapotranspiration
	Lecture 14: Guest lecture
	LAB 7: Estimate landscape ET using SEBS, pvSEBAL
Week 9	Erib // Estimate fanascape Er donig SEBS, pjSEB/1E
	Lecture 15: Evapotranspiration modeling in crop simulation models
	Lecture 16: Guest lecture
	LAB 8: Evaluate effect ET model selection on crop model simulations
Week 10	Erib 6. Evaluate effect Er model selection on erop model sindadons
Week 10	Lecture 17: Evapotranspiration estimation using artificial intelligence
	Lecture 18: Final exam review
	LAB:
Finals Week	
- mail of our	Date and time of final exam to be determined

Spring

4 Units

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