Hydroponics Lecture and Lab Schedule

Spring 2024

January

T	9	Introduction and 9 cardinal parameters
R	11	9 cardinal parameters
T	16	Units for 9 cardinal parameters
R	18	Hydroponic designs and substrate selection
T	23	Essential elements
R	25	Macronutrients and micronutrients
T	30	EC and pH, Lab 1 introduction

February

R	1	Lab 1 – Solution preparation
T	6	Nitrogen
R	8	Iron and chelates
T	13	Methods for solution analysis
R	15	Lab 2 – Solution analysis
T	20	Mass balance for solution preparation
R	22	Transpiration and water-use efficiency
T	27	*Research greenhouse tour* and Lab 3 prep
R	29	Tissue and solution analysis

March

T	5	Nutrient deficiencies and toxicities
R	7	Root-zones, aeration, and gases
T	12	Spring Break – No class
R	14	Spring Break – No class
T	19	Lab 3 – Nutrient imbalance
R	21	Photosynthesis and lighting
T	26	*Conference – No class*
R	28	Supplemental lighting

April

T	2	Lab 4 - Lighting
R	4	Humidity
T	9	Water quality
R	11	Aquaponics
T	16	Greenhouse design and automated system control
R	18	Final presentations
T	23	Final presentations