

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 system designs
T	23	Substrate selection
R	25	Essential elements
T	30	Macronutrients and micronutrients

February

R	1	EC and pH, Lab 1 introduction
T	6	Lab 1 – Solution preparation
R	8	Nitrogen
T	13	Iron and chelates
R	15	Methods for solution analysis
T	20	Lab 2 – Solution analysis
R	22	Mass balance for solution preparation
T	27	Transpiration and water-use efficiency
R	29	Tissue and solution analysis

March

T	5	Lab 3 – Gas exchange
R	7	Gases
T	12	Spring Break – No class
R	14	Spring Break – No class
T	19	Root-zones and aeration
R	21	Photosynthesis and lighting
T	26	<i>Conference – No class</i>
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