



GREENKEEPER™

GreenKeeperApp.com
help@greenkeeperapp.com

UNDERSTANDING WEATHER & FORECASTING TOOLS

Bill Kreuser, Ph.D.

The ever-changing weather is constantly impacting turfgrass management. This six-week course will cover the fundamental processes driving weather at global and local scales, weather vs. climate and climate change, accessing and interpreting different sources of weather data, and use of high-resolution weather models to plan turfgrass management practices.

WEEK 1: WEATHER, CLIMATE, & THE DRIVING FORCE

Weather vs climate, greenhouse effects, & normals: Your climate discussion

WEEK 2: HEAT TRANSFER, PRESSURE, & GLOBAL CIRCULATIONS

Heat transfer, frost events, winds, global circulation: Frost timing & El Nino/La Nina

WEEK 3: LIFT, CLOUDS, & PRECIPITATION

Lifting processes, fronts, clouds, & precipitation: Weather around fronts discussion

WEEK 4: SOURCES OF WEATHER DATA

Different weather charts, RADAR, and satellite data: Discussion about weather sources

WEEK 5: ACCESSING AND UNDERSTANDING WEATHER MODELS

Description of different weather models, access, & interpretation: Weather model demos

WEEK 6: MICROCLIMATES, WEATHER STATIONS, AND SENSOR NETWORKS

Variability in weather/climate data across your facility, different sensor networks and hyper-local weather models to guide decision support apps and pest models

GreenKeeper University courses generally consist of two hours of lecture content each week for students to view at their convenience and one weekly ZOOM discussion.

THIS COURSE IS OFFERED FROM JAN 31 – March 12, 2021