



TURFGRASS FERTILIZATION

This course will cover various aspects of turfgrass fertilization including a thorough examination of nitrogen fertilizer, other secondary and micronutrients, cost-benefit of different fertilizer sources, nutrient demand & clipping volume, and the impact of fertilizer in the environment. At the end of the course, students will build a nutrient management plan for their facility.

Instructor: Doug Soldat, Ph.D.
Doug@GreenKeeperApp.com

Course Structure

This course is organized into three units. Each week will have a video lecture and a short 5- to -10 question quiz. Students should contact Doug with questions related to the course content or with questions about Masterio, quizzes, grades etc. The preferred method of communication is the instructors email listed above. Any general questions about GreenKeeper University should be directed to help@greenkeeperapp.com.

Course Content

All video lectures will be posted on the course's Masterio site (<http://gku.greenkeeperapp.com>). A PDF copy of the lecture materials will be posted below each video link. Supplemental readings will also be post below the video lectures, when applicable. The supplemental content is not required to pass the weekly quizzes. They are designed to provide additional information about a topic. Video lectures are approximately 45-60 minutes in length.

Weekly Quizzes

Each week concludes with a 5- to -10 question quiz. They are designed to emphasize the core concepts from the past week. Quiz questions are displayed one-at-a-time with immediate feedback to help student understand why an answer is correct or incorrect. While GreenKeeper University courses are not graded, students must earn a 70% on a quiz to pass that week. Quizzes can be taken as many times as possible to earn a passing grade.

The course will be completed, and 1 credit will be earned once a student passes all three quizzes.



GREENKEEPER

UNIVERSITY

GreenKeeperApp.com
help@greenkeeperapp.com

COURSE SCHEDULE

SECTION 1: BASIC TRAINING: SOIL FERTILITY AND TURF NUTRIENT REQUIREMENTS

- Lecture 1 – Turfgrass nutrient requirements, the nitrogen cycle
- Lecture 2 – Nutrients that don't always follow the law of the minimum

SECTION 2: UNDERSTANDING NITROGEN FERTILIZATION

- Lecture 3 – How much nitrogen to apply ?
- Lecture 4 – When to apply nitrogen and how often ?

SECTION 3: NUTRIENT MANAGEMENT PLANNING AND NITROGEN FERTILIZERS

- Lecture 5 – Fertilizer cost analysis and quick release N sources
- Lecture 6 – Slow release nitrogen sources
- Lecture 7 – Fertilizer size, biostimulants, foliar fertilizers, and re-visiting economics