



## DISEASES OF WARM-SEASON TURFGRASSES

This course will provide a fundamental understanding of diseases of warm-season turfgrasses. Each section will focus on the identification, biology, and management of a different disease or group of diseases. By the end of the course the students will have a comprehensive understanding of the most important warm-season turfgrass diseases.

**Instructor:** Jim Kerns, Ph.D.  
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### ***Course Structure***

This course is organized into six units. Each week will have a video lecture and a short 5- to -10 question quiz. Students should contact Jim 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](mailto: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 2 credits will be earned once a student passes all six quizzes.**



## COURSE SCHEDULE

- SECTION 1: INTRODUCTION TO TURFGRASS DISEASES AND TURFGRASS FUNGICIDES**  
The basics about turfgrass pathogens and the products commonly used to manage them.
- SECTION 2: TAKE-ALL ROOT ROT AND SPRING DEAD SPOT**  
Biology and control of take-all root rot and spring dead spot.
- SECTION 3: LARGE PATCH AND LEAF AND SHEATH SPOT (MINI-RING)**  
Biology and control of large patch and leaf and sheath spot.
- SECTION 4: PYTHIUM DISEASES OF WARM-SEASON GRASSES (PYTHIUM BLIGHT AND ROOT ROT)**  
Damping off, pythium blight, snow blight, root and crown rot, root dysfunction
- SECTION 5: FAIRY RING, LEAF SPOTS, AND OTHER DISEASES**  
Many diseases can affect warm-season grasses and identification and management will be covered.
- SECTION 6: NEMATODES**  
Understanding worms that feed on turfgrasses is important and may aid in control of other diseases.