Turfgrass and Outdoor Resource Management (CSRF 6371)
Spring Semester 2022 (3 credit hours)

Syllabus

Lecturer: Roger D. Havlak
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Class Times: Wednesday (6 pm to 9 pm)
Class Location: CHP Bldg.; Room 203

Week 1 (January 19)
Review syllabus
Introduction to turfgrass and outdoor resource management

Week 2 (January 26)
Identification of plant parts; turfgrass growth and development
Turfgrass selection (warm season grasses)
Turfgrass selection (cool season grasses)

Week 3 (February 2)
Soil selection and management
Trials and tribulations of building a sports complex

Week 4 (February 9)
Turfgrass establishment/over-seeding with cool season grasses
Mowing management
Proper cultivation practices
Review for Exam #1

Week 5 (February 16)

**No Class/TRAPS Conference in College Station, Tx.
**Week 6 (February 23)**

**Exam #1**
Irrigation management—soil/plant/water relationships
Irrigation management—water sampling and analysis

**Week 7 (March 2)**
Irrigation management—irrigation audits
Irrigation management—water budgets
Nutrient management—soil sampling/analysis, turfgrass requirements, and types of fertilizers
Review for Exam #2

**Week 8 (March 9)**
**Exam #2**

**Week 9 (March 16)**
**Spring Break---No Class**

**Week 10 (March 23)**
Field trip: Demonstrations for turf/tree identification, soils, mowing, cultivation, etc.
Demonstrations of irrigation audits
Soil and water sampling

**Week 11 (March 30)**
Weed management in turfgrass
Disease management in turfgrass
Insect management in turfgrass

**Week 12 (April 6)**
Turfgrass mathematics—surface area measurements
Turfgrass mathematics—sprayer calibration/application/environmental issues
Turfgrass mathematics—pesticide application calculations
Review for Exam #3
Week 13 (April 13)

Field Trip: Demonstrations of surface area measurements
            Spreader and sprayer calibration/application/environmental issues
            Troubleshooting turf issues, pesticides, sampling techniques, etc.

Week 14 (April 20)

**Exam #3
Budgets: Are you prepared to justify?

Week 15 (April 27)

Field Trip: Park systems and sports field management; infields and equipment maintenance

Week 16 (May 4)

**Turfgrass Reports/Presentations
**Comprehensive Course Notebooks Due
Review of course material, demonstrations, field trips, and final exam

Week 17 (May 11)

**Final Exam (Comprehensive)

Grade:

Exam #1 20%  A = 90 – 100
Exam #2 20%  B = 80 – 89
Exam #3 20%  C = 70 – 79
Report/Notebooks 10%  D = 60 – 69
Attendance/Participation 10%  F = Below 60
Final Exam 20%  100%

**It is the responsibility of the student to contact me prior to any exam or assignment date if the student is unable to be present to complete the exam/assignment.