Department of Agriculture **Course No. HO464**
Golf Course and Athletic Field Management **New: Fall 2005**

I. Catalog Description and Credit Hours of Course:
Provides students with an understanding of the cultural management of turfgrasses that are utilized on golf courses and athletic fields. Two lectures & two-hour lab. Prerequisite: HO 230. (3)

II. Prerequisites:
HO 230

III. Purposes or Objectives of the Course:
A. Provide students with an understanding of the cultural management of those turfgrasses that are utilized on golf courses and athletic fields.
B. Emphasizes the basic turfgrass principles as they apply to golf course and athletic field turfgrass culture.
C. Discuss the utilization of turfgrasses in different parts of the country and how these different species are adapted for specific uses as a turfgrass for golf courses and sports fields.
D. Field trips will be taken to provide examples of management practices and hands-on demonstrations.

IV. Expectations of Students:
A. Attendance to both the lecture and laboratory is the responsibility of the student.
B. Any absence from an exam requires written documentation as to the reason for missing an exam, otherwise a grade of zero will be earned.
C. Academic dishonesty can result in probation, suspension, or expulsion, as outlined by University Policy.

V. Course Content or Outline:
A. Introduction, Overview of Course, and Student Profile
B. A History of Golf
C. Golf Courses in North America
D. History of Turfgrass Research
E. Turfgrass Visual Quality
F. Turfgrass Functional Quality
G. Adaptation Zones of Turfgrasses
H. Warm Season Turfgrasses for Golf Courses and Athletic Fields
    1. Bermudagrass
    2. Zoysiagrass
    3. Seashore Paspalum
I. Cool Season Turfgrasses for Golf Courses and Athletic Fields
    1. Bentgrass
    2. Kentucky Bluegrass
    3. Perennial Ryegrass
    4. Fine Fescues

5. Annual Bluegrass

J. Soil Chemical Properties
K. Soil Physical Properties
L. Golf Course Putting Green Construction
M. Construction of Athletic Fields
N. Turfgrass Establishment
O. Turfgrass Nutrition
P. Turfgrass Fertilization and Fertilizer Programs
Q. Cultural Practices for Golf Courses
    1. Mowing Effects on Turfgrass
    2. Soil Compaction
    3. Aerification
    4. Thatch
    5. Vertical Mowing
    6. Topdressing
R. Overseeding
S. Pest Management
    1. Weed Management
    2. Disease Management
    3. Insect Management

VI. Textbooks and/or Other Required Materials or Equipment:

A. Beard, JB. 2002. Turf Management for Golf Courses (2nd edition). John Wiley and Sons NY.
B. Pulhalla, J, J Krans, M Goatley. 1999. Sports Fields: A Manual for Design, Construction, and Maintenance. Ann Arbor Press, Chelsea MI.
C. Recommended Reference Books:
    1. Beard, J. 1973. Turfgrass: Science and Culture. Prentice-Hall, Englewood Cliffs NJ
    2. McCarty, LB. 2000. Best Golf Course Management Practices (2nd Edition). Prentice Hall, Englewood Cliffs NJ
    3. Murphy, TR (ed.). 1979. Weeds of Southern Turfgrasses, University of Florida, Gainesville FL

VII. Basis for Student Evaluation:

A. Three Lecture Exams (45%)
B. Laboratory (20%)
C. Paper and Presentation (20%)
D. Final Exam (Comprehensive) (15%)
E. Grading Scale:

A	90% and above
B	80 to 89%
C	70 to 79%
D	60 to 69 %
F	Below 60%