

Survey '67:

Turfgrass Management Training, Part 4

From "brushup" short courses to two-year technical programs, from four-year undergraduate courses leading to B.S. degrees to research-oriented postgraduate studies, colleges around the country are stepping up their turfgrass management training programs in the face of heavy demand for graduates. With this issue WTT completes publication of its series on this nationwide study.

University of Wisconsin, Madison, Wisconsin

Most students interested in turf are soils majors at the University of Wisconsin. The University offers no formal training program as such in the area of turf management. However, students are trained for turf management within the various majors offered in the College of Agriculture.

Dr. James Love of the Soils Department serves as advisor to students interested in turf management. Students majoring in Agronomy and Horticulture take courses offered by these departments plus those offered in botany, soils, entomology, plant pathology, and horticulture to gain their background in turf management. One specific turf management course is offered by the Department of Horticulture. Dr. Robert Newman, Extension Horticulturist, teaches a 2-

hour credit course in turf management and also a 5-week, non credit turf course for Wisconsin's annual agricultural short course. All students desiring to enter turf management have the benefit of on-the-job training during summers at golf courses of the state.

Tuition charges amount to \$162.50 per semester for Wisconsin residents and \$525 for non residents. A total of 12 students at the junior and senior level are now taking course work aimed at the turf management field.

Requests for information may be directed to Dr. James Love, Soils Department, University of Wisconsin, Madison, Wis. 53706 or to Dr. Robert Newman, Horticulture Building, University of Wisconsin, Madison, Wis. 53706.

University of Missouri, Columbia, Missouri



Dr. Delbert D. Hemphill: The demand for college graduates trained in turf management is far greater than the supply.

Turf training at the University of Missouri is being developed by the Department of Horticulture. Both 4-year undergraduate and graduate programs are offered in the curriculum. Degree offered for undergraduate training is a B.S. in Agriculture with a major in turf management. Dr. Delbert D. Hemphill who has helped develop the program reports that a course of study is developed to fit the needs of each student. All students are required to take courses in turfgrass management, chemistry, plant nutrition, plant physiology, plant pathology, plant ecology, business, soils, weed control, genetics and entomology.

Dr. C. W. (Bill) Lobenstein directs the turf program, with assistance in teaching by Dr. Hemphill and Professor Ronald

Taven. Other departments in the College of Agriculture are involved for courses other than those specifically within the Horticulture Department.

Initiated in 1966, three undergraduate students are currently enrolled in the new curriculum. Tuition is \$140 per semester with an additional cost of \$65 estimated for books and supplies. Requirement for entering the program is admission to the University. The fall semester begins in mid-September, 1967. A winter term will begin in late January of 1968. On-the-job training is encouraged in the program, but is not a requirement for the degree.

Direct requests for more information to Dr. C. W. Lobenstein, Department of Horticulture, University of Missouri, Columbia, Mo.

Cornell University, Ithaca, New York

Turfgrass management instruction and research is the responsibility of the Department of Floriculture and Ornamental Horticulture. Dr. John F. Cornman serves as advisor to students with a special interest in the field.

Graduate work is offered at both the Master's and Ph. D. levels in addition to a B.S. degree for the undergraduate. There is no specification on the diploma, however, as to the courses studied.

Requirements for the B.S. degree are general with 120 hours required for graduation. Of this total, 75 hours are electives. A student with particular interest in turfgrass management can take the 4 hours of specific instruction available plus supporting courses in horticulture and agronomy. Other material taken would likely include insect,

disease, and business management subjects. A student program is outlined with the interests of the particular student in mind.

Tuition costs vary somewhat, but college of agriculture students who qualify as residents of New York State pay \$200 per term with out-of-state students paying \$300. Admission to Cornell is difficult unless students have demonstrated superior academic ability and interest at the high school level. Application should be made by March 15 of the year in which entrance is required. Applications after this date are considered only if space is available.

For detailed information regarding turfgrass management training direct inquiries to Dr. John F. Cornman, Plant Science Bldg., Cornell University, Ithaca, N.Y. 14850.

University of Florida, Gainesville, Florida



Dr. G. C. Horn: Opportunities for the career-minded turf management graduate are excellent. This field from this standpoint is the best area in agriculture today.

At the University of Florida, turf training is administered by the Department of Ornamental Horticulture. The program, directed by Dr. G. C. Horn, Associate Turf Technologist, offers a 4-year program leading to a bachelor's degree. A Masters degree in turf management is also offered. Further work leading to Ph.D. degrees is handled in cooperation with other departments.

Majors in turf management are required to take 27 hours of courses in Plant Science plus 15 elective hours in Plant Science, Agronomy, Fruit Crops, Ornamental Horticulture and Vegetable Crops. In addition, 19 hours in Ornamental Horticulture are required. These latter hours include courses in Basic Plant Materials, Turf Management, Nursery Operation, Floriculture, Advanced Turf Management, and Special Problems. On-the-job training is also a requirement.

This Florida program was started in 1947 by Dr. Roy A. Bair. Currently there are 14 students enrolled which is a record number for the program.

Entrance requirements for freshmen include being a graduate of an accredited high school, 12 academic units of English, foreign language, math, science, and social science, a "C" average in all academic courses, a score in the top 40% (total score of 300) in Florida's 12th grade tests, and a record of good conduct. Tuition was \$130 per trimester for Florida residents, and \$330 for out-of-state students. Florida is now on a quarter system, dates of which may be had by contacting the Registrar at the University of Florida.

For complete information, write Dr. G. C. Horn, Department of Ornamental Horticulture, 404 Newell Hall, Gainesville, Florida 32601.

University of Rhode Island, Kingston, Rhode Island



Dr. C. R. Skogley: We could place more graduates. We are contacted by many golf clubs and commercial companies for those who graduate.

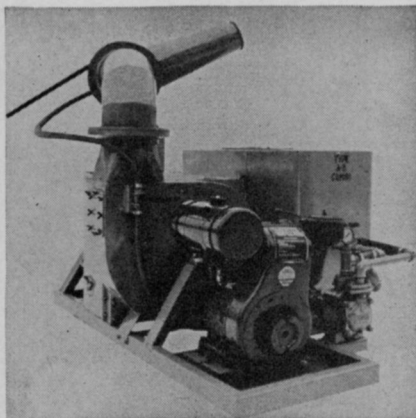
Turf training at the University of Rhode Island comes under the Department of Agronomy and Mechanized Agriculture. Dr. Robert C. Wakefield is department chairman, and Dr. C. R. Skogley is principal advisor for turf students.

Programs offered are four-year undergraduate and graduate studies. Work towards a B.S. degree falls in one of two undergraduate curriculums: agricultural science for students wishing more intensive training in basic sciences leading to graduate work; and Agricultural Technology, a curriculum less intensive in basic sciences and which may be more practical in nature. Graduate programs are directly under supervision of agronomy department staff members; courses are taken in such areas as agronomy, soils, botany, biochemistry, statistics, etc., with specific emphasis on thesis research in turf.

Begun in turf research, the Rhode Island program continues to emphasize research. According to Dr. Wakefield: "We have

one of the oldest, and, we have been told, one of the most comprehensive research programs found anywhere. Our training program for students is a relatively small one, but, we hope, a good one since the research staff and research facilities provide an unusual opportunity for students to learn by association." Turf teaching staff includes Dr. C. R. Skogley, Dr. D. T. Duff, Dr. R. S. Bell, Dr. R. C. Wakefield, and J. A. Jagschitz. A two-year training program is in the advance planning stage, and is hoped to be in operation by Sept. 1968.

Requirement for entering this program is satisfactory college preparatory work in high school plus entrance exams. Rhode Island residents pay no tuition; nonresidents pay \$600. per year. Graduate assistantships are available. Courses convene in September, with April the application deadline. Inquiries should go to Director of Admissions, Administration Building, University of Rhode Island, Kingston, R.I. 02881.



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