

Turfgrass Management (TRF)

TRF 110. Introduction Turfgrass Cultivation & Id And Identification. 4.0 Credits. Class-3.0. Clinical-0.0. Lab-2.0. Work-0.0

This course covers the principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawns. Topics include principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawn applications. Upon completion, students should be able to identify turfgrass species and develop an establishment and maintenance plan for high quality turf areas in accordance with sustainable practices.

TRF 120. Turfgrass Irrigation and Design. 4.0 Credits. Class-2.0. Clinical-0.0. Lab-4.0. Work-0.0

This course covers the basic techniques involved in the design, layout, installation, and use of water-wise turfgrass irrigation systems. Topics include types of irrigation systems, components of the systems, materials available for use, and economic considerations. Upon completion, students should be able to complete a functional design for a turfgrass irrigation system according to sustainable practices.

TRF 125. Turfgrass Computer App. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0

This course introduces basic computer applications for the turfgrass industry. Emphasis is placed on computer software applications for irrigation design, management, and budget planning for turfgrass applications. Upon completion, students should be able to use appropriate software for various turfgrass management applications.

TRF 130. Native Flora ID. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0

This course covers identification of selected native ground covers and woodland trees by summer and/or winter characteristics. Emphasis is placed on mature age, fall colors, site adaptability, and habit of growth for special turf-related areas. Upon completion, students should be able to identify native plants by size and leaf, bud, twig, and limb formation.

TRF 152. Landscape Maintenance. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0

This course introduces the tasks of landscape maintenance. Emphasis is placed on lawns, shrubs, trees, flowers, and ground covers. Upon completion, students should be able to maintain a landscape area on a year-round schedule.

TRF 210. Turfgrass Eqmt Mgmt. 3.0 Credits. Class-1.0. Clinical-0.0. Lab-4.0. Work-0.0

This course covers the operation and maintenance of specialized turfgrass management equipment. Topics include small engine use and repair; operation, maintenance, and repair of turfgrass management equipment; organization of shop areas; and safety considerations. Upon completion, students should be able to operate and maintain turfgrass management equipment.

TRF 220. Turfgrass Calculations. 2.0 Credits. Class-2.0. Clinical-0.0. Lab-0.0. Work-0.0

This course introduces the specific math concepts and calculations necessary in the turfgrass industry. Emphasis is placed on calibration of equipment used in the application of fertilizers and pesticides and calculation of solid materials used in construction. Upon completion, students should be able to correctly perform basic calculations and calibrations and estimate materials needed in specific professional turfgrass management situations.

TRF 230. Turfgrass Mgmt Apps. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-2.0. Work-0.0

This course introduces specific sports field design, installation, and maintenance. Topics include natural grass croquet courts and baseball, soccer, and football fields. Upon completion, students should be able to perform specific tasks in layout, field marking, and preparing for tournament play.

TRF 240. Turfgrass Pest Control. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0

This course covers detection and identification of turfgrass pests with emphasis on methods of sustainable management. Topics include pest identification with an understanding of pesticides used, application procedures, and costs involved in sustainable management programs. Upon completion, students should be able to identify turfgrass pests, select the proper pesticide, develop pest management programs, and/or use integrated pest management.

TRF 250. Golf /Sport Field Const. 4.0 Credits. Class-2.0. Clinical-0.0. Lab-4.0. Work-0.0

This course provides information for layout, materials, and construction of special recreational applications. Emphasis is placed on site selection, equipment, safety regulations, drainage, turfgrass species, and irrigation needs. Upon completion, students should be able to locate construction reference sites and develop drainage and irrigation plans from their own blueprints and topo map designs.

TRF 260. Adv Turfgrass Mgmt. 4.0 Credits. Class-3.0. Clinical-0.0. Lab-2.0. Work-0.0

This course covers the principles and practices involved in turfgrass management. Topics include choosing the best management practice in mowing, pest control, fertilization, irrigation, traffic control, air control, budgeting, and materials procurement. Upon completion, students should be able to demonstrate knowledge of the principles covered and select and apply the best practices in turfgrass management.
Prerequisites: Take TRF 110

TRF 270. Advanced Turfgrass Equipment Management. 4.0 Credits. Class-2.0. Clinical-0.0. Lab-4.0. Work-0.0

This course covers the advanced repair and maintenance of turfgrass equipment. Emphasis is placed on the diagnosis, repair and maintenance of power trains, electrical systems, hydraulics, small air-cooled engines, four-stroke engines, and compact diesel engines. Upon completion, students should be able to diagnose and repair commonly used turfgrass equipment and communicate information concerning the repairs and the necessary maintenance schedule in a professional manner.
Prerequisites: Take TRF 210