TURFGRASS (TURF)

TURF 100: Introduction to Turfgrass Management
3 Credits

Introduction to turfgrass species, establishment, maintenance, and pest control of turfgrass species used for sports, lawn/utility turf, and golf courses. TURF 100 Introduction to Turfgrass Management (3)

TURF 297: Special Topics
1-9 Credits/Maximum of 9

Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

TURF 307: Golf Course Irrigation and Drainage
3 Credits

TURF 307 Golf Course Irrigation and Drainage (3) TURF 307 is a course developed to instruct students, interested in working in the turfgrass management profession. Note: PLANT 217 may not be substituted for TURF 307 for prescribed course credit. The majority of the course is devoted to irrigation topics with a strong concentration on turfgrass irrigation applications, while the remainder concerns surface and subsurface drainage. The course covers the following topics: The influence of weather on irrigation management; sprinkler characteristics, selection; management of piping and control systems; maximizing irrigation efficiency by using turfgrass evapotranspiration, soil characteristics, and expectations of venue; fundamental hydraulics, irrigation layout and piping sizing; pump characteristics and system winterization; surface and subsurface drainage systems. The course also includes short field trips to various local industry-related facilities for educational evaluation.

Prerequisite: MATH 021, SOILS101

TURF 425: Turfgrass Cultural Systems
3 Credits

This course will inform students about turfgrass maintenance practices and how their interrelationships can be utilized to develop management systems. TURF 425 will prepare students for the practical application of agronomic principles and concepts in the green industry. Students will develop management and problem solving skills. The course will be a platform for students to learn about the integration of different turfgrass maintenance practices into sound management strategies that lead to the production of high quality turfgrass areas. Specifically, the course will include concepts about golf turfgrass, sports turfgrass and home lawn care. There will be a focus on both the aesthetic quality and functionality of these turfgrass sites and the interrelationship of the concepts.

Prerequisite: SOILS101, TURF 235

TURF 434: Turfgrass Edaphology
3 Credits

Characterization of soil physical properties for the establishment and maintenance of sports turf; includes root-zone construction. TURF 434 Turfgrass Edaphology (3) TURF 434 is offered to students that are entering their final year of the turfgrass science major. This course builds on introductory turfgrass and soil courses. In this course you will learn to interpret soil physical results using the United States Golf Association specifications for greens construction. You will learn how to evaluate and manipulate the physical properties of a soil in order to provide a quality turfgrass stand under varying conditions. You will use new information as well as physical and quantitative tools provided to aid in soil management decisions. You will defend your decisions to other students in group-exercises conducted on a computer bulletin board. You will also submit your decision making process and defend your decisions in writing, in the form of business proposals. This class
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has a series of labs, some of which run over several weeks. You will use class material and the physical and quantitative tools learned in the labs to inform your decision-making processes. Your grade will be based on exams, lab reports, and practicums. The practicums and the labs are interrelated. The practicums, which are mini-case studies of actual turfgrass situations and problems, require you to apply techniques and information learned in the physical lab periods. The practicums are graded on initial draft, final draft, and your critique of other student’s solution to a problem. TURF 434 is an advanced course in soil physical properties.

Prerequisite: SOILS101, TURF 235

TURF 435: Turfgrass Nutrition

4 Credits

Study of turfgrass nutrition and growth; emphasizing constructed and mineral soil fertility, nutrient uptake and function, and fertilizer use efficiency. TURF 435 Turfgrass Nutrition (4) Turfgrass Nutrition is a study in the nutrition and growth of turfgrass plants. Upon completion of this course, students will be able to distinguish the function and requirements of nutrients in the turfgrasses; describe how soil physical and soil chemical properties/conditions affect nutrient availability; select soil amendments to remedy soil chemical limitations; identify the best fertilizers and application methods to satisfy site-specific nutritional requirements; prepare nutrient management plans by appraising edaphic and environmental conditions and current cultural management and use; and will have discovered how best to sample soil, tissue, and water; submit samples, choose appropriate specialty tests, and interpret reports. TURF 435 compliments Turfgrass Edaphology, by examining soil chemical (rather than physical) properties as turfgrass growth parameters and addressing ameliorative measures in concept and operation. Students are introduced to the many classes of specialty fertilizers used in turfgrass management and their specific attributes are revealed through laboratory and field exercises. Students are evaluated through written testing of plant growth and nutrition concepts, interpretation of soil analysis, recommendations of fertilizer type and rate, and nutrient fate and management. TURF 435 has a substantial laboratory component.

Prerequisite: SOILS101, TURF 235

TURF 436: Case Studies in Turfgrass Management

3 Credits

Case study and discussion considering integrated management of selected turfgrass sites; emphasis on problem analysis, principle application, and decision making. TURF 436 Case Studies in Turfgrass Management (3) Case Studies in Turfgrass Management is a three credit, writing intensive course for students in the final year of the Turfgrass Science major. The goal of this capstone course is to provide students with an understanding of processes involved in solving turfgrass and soil problems at the managerial level. Using several real-life scenarios provided by the instructor, students will learn to gather facts associated with a problem, analyze the problem, formulate a set of options for solving the problem, implement a plan of action, and evaluate the results of the action. Once these processes are assimilated, students will form teams and select challenging turf and soil problems, analyze them, formulate options for solving the problems, select the most feasible solutions, and evaluate outcomes. Teams will submit reports and develop presentations for class. Teams will also be charged with questioning presenting teams and evaluating team members. Students will be evaluated through exams, reports, presentations, and class participation.

Prerequisite: TURF 238, TURF 425

Writing Across the Curriculum

TURF 489: Supervised Experience in College Teaching

1-3 Credits

Participate with instructors in teaching and undergraduate turfgrass course. Assist with teaching an evaluation and with development of instructional materials.

Prerequisite: TURF 235

TURF 490: Colloquium

1 Credits

Oral presentations developed by students in consultation with the course instructor.

Prerequisite: seventh semester standing

TURF 495: Internship

1-18 Credits/Maximum of 18

Supervised off-campus, nongroup instruction including field experiences, practical, or internships. Written and oral critique of activity required.

Prerequisite: prior approval of proposed assignment by instructor

Full-Time Equivalent Course

TURF 496: Independent Studies

1-18 Credits/Maximum of 18

Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.

TURF 499B: Foreign Studies

1-8 Credits

Courses offered in foreign countries by individual or group instruction.

International Cultures (IL)