

# TURFGRASS AND LANDSCAPE MANAGEMENT (TLMT)

## TLMT 95 Turfgrass and Landscape Management Extended Internship

**Description:** Participation in a turfgrass or landscape management enterprise (other than in one of those in which the student has had previous experience).

**Credit Hours:** 0

**Max credits per semester:**

**Max credits per degree:**

**Grading Option:** Pass No Pass

## TLMT 100 Plants, Landscapes, & the Environment

**Crosslisted with:** HORT 100, AGRO 100

**Description:** Introduction to a diverse range of plant and landscape systems and management strategies for balancing economic and environmental sustainability. Foundational principles of plant biology, landscape ecology, and environmental science explored within the context of these systems.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Offered:** FALL/SPR

**ACE:** ACE 4 Science

## TLMT 102 Internship and Career Preparation

**Crosslisted with:** AGRO 102, HORT 102

**Description:** Group and individual activities to help formulate career goals, improve academic success skills, identify beneficial co-curricular activities, and select appropriate internships.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

**Offered:** FALL

## TLMT 127 Survey of Turfgrass and Landscape Management

**Crosslisted with:** AGRO 127, HORT 127

**Description:** Introduction to careers, internships and co-curricular activities in turfgrass and landscape management.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

## TLMT 134 Plant Sciences Laboratory

**Crosslisted with:** AGRO 134, HORT 134

**Prerequisites:** Prior or concurrent enrollment in AGRO/HORT 131 required

**Notes:** Open to all majors and minors, except Agronomy or Horticulture.

**Description:** An exploration of plant morphology, physiology, and maturation with an emphasis on environmental, biotic, and human interactions within production and landscape systems. Not open to Agronomy or Horticulture majors or minors.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded

**Prerequisite for:** ENTO 308; HORT 306; HORT 307

## TLMT 215 Genetics

**Crosslisted with:** AGRO 215, HORT 215

**Prerequisites:** 3 hrs biological sciences

**Description:** Discovery of the biology of genes and the application of genetics principles to understand the control and inheritance of traits in families and populations. Focus is on animals and plants that are important in medicine, agriculture and nature. Learning emphasis is problem solving via online, instant feedback assessments, group discussion, experimental data analysis and context-based exams.

**Credit Hours:** 4

**Max credits per semester:** 4

**Max credits per degree:** 4

**Grading Option:** Graded with Option

**Prerequisite for:** ASCI 330; ASCI 486; PLPT 418, PLPT 818

## TLMT 227 Introductory Turfgrass Management

**Crosslisted with:** AGRO 227, HORT 227

**Prerequisites:** AGRO/HORT 131 or AGRO 278 or either concurrently.

**Description:** Introduction to turfgrasses, their management and use, and to the turfgrass industry.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Offered:** FALL

**Prerequisite for:** AGRO 327, HORT 327, TLMT 327; TLMT 395T

## TLMT 228 Introduction to Landscape Management

**Crosslisted with:** AGRO 228, HORT 228

**Prerequisites:** AGRO/HORT 131 or AGRO/HORT 278 or either concurrently.

**Description:** An overview of landscape systems for human intent. Includes seasonal and materials-specific BMPs for assessment, soil work, irrigation, plants and hardscapes, pests and diseases, using a combination of site visits, collaborations, and applied case studies.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Offered:** FALL

**Prerequisite for:** AGRO 470, HORT 470, TLMT 470; TLMT 395L

## TLMT 229 Introductory Turfgrass Management Laboratory

**Crosslisted with:** AGRO 229, HORT 229

**Description:** Laboratory covering turfgrass identification and management.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

**Offered:** FALL

## TLMT 326 Landscape Solutions

**Crosslisted with:** AGRO 326, HORT 326

**Description:** Using processes and problem-solving approach to identify and analyze common landscape management situations in commercial, public, and residential landscapes. Integrate design, environment, function, pest and disease, and existing management practices to produce recommendations.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Offered:** SPRING

**TLMT 327 Turfgrass Science and Management**

**Crosslisted with:** AGRO 327, HORT 327

**Prerequisites:** AGRO/HORT/SOIL 153; CHEM 105 or CHEM 105A and 105L or CHEM 109 or CHEM 109A and 109L; and TLMT 227

**Description:** Scientific principles of turf species adaptation, turf and/or soil relationships, establishment, fertility, mowing, irrigation, and pest control of turf species.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**TLMT 330 Pruning Ornamentals**

**Crosslisted with:** AGRO 330, HORT 330

**Description:** Why, when and how to prune ornamental landscape plants. Demonstrations and field opportunities on how to choose and how to use pruning tools correctly.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

**TLMT 375 Innovations for Agriculture**

**Crosslisted with:** HORT 375, AGRI 375, AGRO 375, EAEP 375

**Prerequisites:** Junior or Senior class standing.

**Description:** Explore sustainability challenges in plant and animal agricultural systems, assess current solutions, and identify opportunities for innovation. Research, develop, prototype, test, and pitch an innovative product, service, or technology for agriculture.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Offered:** FALL

**TLMT 391T Special Topics in Turfgrass Science and Management**

**Prerequisites:** Permission

**Notes:** Requires advanced permission before registering for the course

**Description:** Topics vary.

**Credit Hours:** 1-6

**Min credits per semester:** 1

**Max credits per semester:** 6

**Max credits per degree:** 12

**Grading Option:** Graded with Option

**Offered:** FALL/SPR

**TLMT 395L Internship in Landscape Design and Management**

**Prerequisites:** Junior standing; TLMT 228 or HORT 267; and completion of an internship contract. Internships completed without a signed contract not may qualify for credit.

**Notes:** Pass/No Pass only; requires advanced permission before registering for the course.

**Description:** Advanced professional experience in a landscape design and/or management enterprise. Experience must be with a business, government agency, organization, or a university research, extension, or teaching program in which the student does not have previous internship credit.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 6

**Grading Option:** Pass No Pass

**Offered:** FALL/SPR

**TLMT 395T Internship in Turfgrass Science and Management**

**Prerequisites:** Junior standing; TLMT 227 and completion of an internship contract. Internships completed without a signed contract may not qualify for credit.

**Notes:** Pass/No Pass only; requires advanced permission before registering for the course.

**Description:** Advanced internship experience in a turfgrass enterprise.

Must be a business, government agency, organization, or university research, teaching or extension program in which the student does not have previous internship credit.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 6

**Grading Option:** Pass No Pass

**Offered:** FALL/SPR

**TLMT 414 Turfgrass Disease Management**

**Crosslisted with:** AGRO 414, AGRO 814, HORT 414, HORT 814, PLPT 414, PLPT 814, TLMT 814

**Prerequisites:** BIOS/PLPT 369 or one semester of introductory plant pathology.

**Description:** Pathogens, epidemiology, and control of diseases specific to turfgrass.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

**TLMT 427 Turfgrass Systems Management**

**Crosslisted with:** AGRO 427, HORT 427, AGRO 827, HORT 827, TLMT 827

**Prerequisites:** TLMT 227 and TLMT 327

**Description:** Critical evaluation of turfgrass settings to create economical and environmentally friendly management systems for professionally managed turf areas.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**ACE:** ACE 10 Integrated Product

**TLMT 470 Critical Thinking in Landscape Management**

**Crosslisted with:** AGRO 470, HORT 470

**Prerequisites:** HORT 228, TLMT 228

**Description:** Use processes and strategies to develop complete landscape management plans for public and/or private clients. Use data to evaluate and compare issues; make practical, science-based recommendations; and prepare cost estimates. Develop and present a complete landscape management plan for a public client.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Offered:** SPRING

**ACE:** ACE 10 Integrated Product

**TLMT 480 Modified Root Zones**

**Crosslisted with:** AGRO 480, HORT 480, TLMT 880, AGRO 880, HORT 880

**Prerequisites:** SOIL 153

**Notes:** Recommend CHEM 105A/105L or 109A/109L, AGRO/HORT 131, TLMT 227, and AGRO/HORT 453 or AGRO 472

**Description:** Modified root zones and their applications in the turfgrass and landscape management industry. Correct applications and construction techniques.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

**Offered:** SPRING