Landscape Technology (LST)

LST 1110 Introduction to Ornamental Horticulture ..............................................3 Credit Hours
Equivalent: LST 1010
This course is designed to introduce the student to the basic cultural practices utilized in the landscape industry. The course topics include: plant propagation, soils and fertilizers, turf grass culture, tree planting and pruning, pest management and annual and perennial flower maintenance. Students will also study plant form and functions as it relates to identification and care of ornamental plants. Students will explore the impact of landscape management practices on soil erosion, ground water quality, and exotic pest introductions. BILLABLE CONTACT HOURS: 3

LST 1120 Plant Identification ......................................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Using both botanical and common names, 150 woody ornamental plants commonly used in landscaping, their uses and culture will be identified. BILLABLE CONTACT HOURS: 3

LST 1130 Woody Plant Identification II ........................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher is required.
Prerequisite: LST 1120.
This course is a continuation of LST 1120. Using both botanical and common names, the student will study an additional 150 woody ornamental plants commonly found in the landscape. Plant uses and culture will be stressed. BILLABLE CONTACT HOURS: 3

LST 1140 Flowering Annuals and Perennials ..............................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
The student will study 80 flowering annuals and perennials common to landscaping using both botanical and common names. Their uses and culture will be discussed. BILLABLE CONTACT HOURS: 3

LST 1210 Soil and Soil Fertility ......................................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Course describes the formation of soils and mixes, compares and evaluates tillage methods and explores elements used by plants in their growth and development. BILLABLE CONTACT HOURS: 3

LST 1220 Landscape Construction - Irrigation ..............................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Course provides the student with knowledge necessary to develop an irrigation system for a home property, indicate the equipment used in the system and the principles of hydraulics utilized. Leveling instruments are used. BILLABLE CONTACT HOURS: 3

LST 1230 Landscape Construction - Hard Structures ..............................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Students will learn the techniques and use of materials for construction and installing various landscape features such as walls, walkways, wooden structures and water features. Pricing and bidding techniques are discussed. BILLABLE CONTACT HOURS: 3

LST 1300 Greenhouse Management ......................................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
This course is an introduction to greenhouse operations and management principles. Included are principles, techniques, methods and materials used by commercial horticulturalists in the production of plant material. BILLABLE CONTACT HOURS: 3

LST 1403 Field Project ......................................................3 Credit Hours
Equivalent: LST 2110
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
This course is designed to give the student employment as a trainee in a business concern or other appropriate landscape technology agency. BILLABLE CONTACT HOURS: 3

LST 1510 History of Landscape Architecture ..............................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Students will study the theories and concepts that have shaped urban landscape development from the time of the first cities to the present. Students will study the planning of such distinguished planners as Olmsted, Howard, Wright, Jefferson, Burnham, and others. BILLABLE CONTACT HOURS: 3

LST 2010 Turfgrass Management ......................................................3 Credit Hours
Equivalent: LST 2020
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
This course deals with collecting, identifying and controlling the common weeds of turf and garden. Various weed control methods and aspects of turf establishment and care are identified. BILLABLE CONTACT HOURS: 3

LST 2140 Garden Design and Maintenance ..............................................3 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Prerequisite: LST 1140 or consent of instructor.
Students will study and practice garden design techniques for five frequently encountered site types. Residential, commercial, and public gardens are included. Various design presentation styles will be covered. Plants, planting methods, and maintenance for each type of site will be discussed. BILLABLE CONTACT HOURS: 3
LST 2210  Nursery Practices ..........................3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 1110 and LST 1120.
The aspects of one segment of the nursery industry will be described in a comprehensive term paper. An extended field trip is recommended to acquaint the student with various types of nurseries and their internal operations. BILLABLE CONTACT HOURS: 3

LST 2310  Introduction to Landscape Planning.........3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 1110 LST 1120 and LST 1210 or consent of instructor. Course enables the student to plan landscape designs for residential properties, using the basic principles of landscape architecture. BILLABLE CONTACT HOURS: 3

LST 2315  Landscape Design Solutions..................3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 2310

This course is designed to provide instruction in landscape evaluation and problem solving for home and commercial outdoor living space. Students will demonstrate proficiencies in the use of green industry guidelines for landscape site evaluation, water and soil management, pedestrian and vehicular traffic flow and tree preservation. Students will explore current industry practices and theoretical concepts for designing landscapes, using both hard and soft structures, to overcome typical issues faced in Midwest landscapes. Emphasis will be placed on the principles of environmental responsibility, aesthetics and design functionality. BILLABLE CONTACT HOURS: 3

LST 2320  Advanced Landscape Planning...............3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 2310

This course will enable the student to design large properties with special emphasis on ornamental plants and environmental considerations. BILLABLE CONTACT HOURS: 3

LST 2340  Insect Pests and Disease Control...............3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 1110 LST 1120

Course covers principles of insect and disease identification as well as acceptable control measures commonly used in turfs and ornamental plants. BILLABLE CONTACT HOURS: 3

LST 2350  Landscape Design Presentations...............3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 2320

This course will develop skills in the presentation of design/build plans. Students will use designs from previously completed courses to develop their rendering skills in color application and perspectives. Students will be introduced to the techniques of model building used to aide clients in visualizing design concepts. Emphasis will be on the development of design/build sales skills, as students develop proficiency in adding landscape feature details to their design/build plans. BILLABLE CONTACT HOURS: 3

LST 2370  Plant Health Care..........................3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 2340

This course is designed to give the student an opportunity to develop an understanding of pest control. Instruction will stress pesticides and growth regulating chemicals including chemical nature and formulations, toxicity, application techniques, and environmental hazards. The course will also include pest control alternatives in integrated pest management programs, vocabulary relating to pest management and state licensing requirements. BILLABLE CONTACT HOURS: 3

LST 2400  Arboriculture..............................4 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 1110 LST 1120 LST 1210 and LST 2340 or consent of instructor.
The student will learn the principles and techniques of plant selection, establishment, diagnosis of disorders and cultural practices used in the maintenance of woody perennials commonly found in the urban landscape. BILLABLE CONTACT HOURS: 4

LST 2403  Advanced Field Project.........................3 Credit Hours

Equivalent: LST 2120

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Corequisite: LST 1403

This course is designed to give the student further work as a trainee in a business concern or other appropriate agency in the landscape technology field. BILLABLE CONTACT HOURS: 3

LST 2410  Arboriculture II............................4 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Corequisite: LST 2400 or consent of instructor.
The student will study the principles and techniques of pruning, diagnosis of disorders, tree assessment, risk management, construction management, basic climbing procedures, and tree worker safety used in the maintenance of woody perennials commonly found in the urban landscape. BILLABLE CONTACT HOURS: 4
LST 2420  Tree Biomechanics ........................................3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Corequisite: BIO 1320 or consent of instructor.
This course introduces the student to the principles of biological self optimization in the development of tree form, structure, and mechanics. The student will study the principles of predictable tree failure in the urban landscape. BILLABLE CONTACT HOURS: 3

LST 2480  Computer Aided Landscape Design ........... 3 Credit Hours

English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).

Prerequisite: LST 2310 and LST 2320
This course offers the student the opportunity to design with today's technology. Students will use various computer applications to design residential and commercial landscapes, including cost estimation, development of three-dimensional perspectives, and the production of color prints for presentation purposes. BILLABLE CONTACT HOURS: 3