

# LANDSCAPE DESIGN COURSEWARE

## NEW for 2013

Announcing an all-new Landscape Design course featuring industry leading PRO Landscape design software, and Intelitek Corporation's LearnMate 5 LMS (Learning Management System).

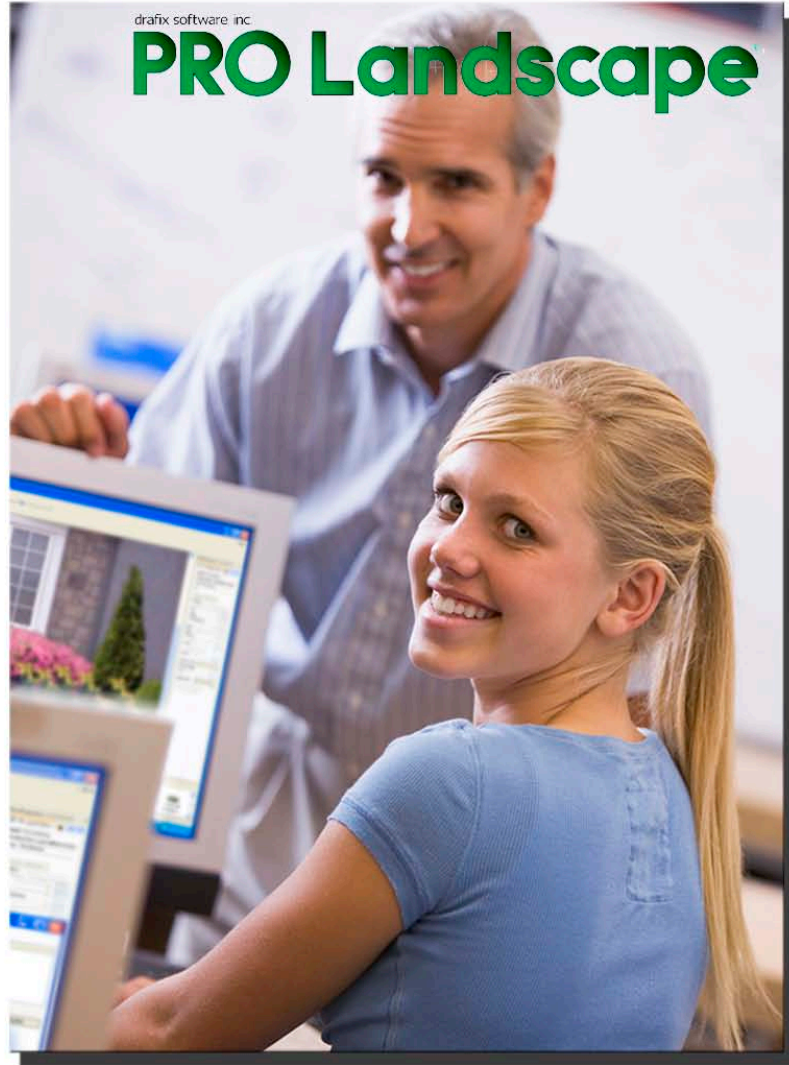
The fundamentals of landscape design are presented through rich multimedia content and an intuitive user interface. The course assumes no prior knowledge or experience in the landscape design field, and can be implemented with students ranging from middle school through the post secondary level.

Throughout this course, students are introduced to:

- the history of landscape design
- landscape styles
- design elements
- softscape/plant material
- hardscape elements
- the science of landscaping
- climates/zones
- irrigation design
- pest prevention and control
- cost estimating
- quote generation
- and much more...

Knowledge and performance-based assessments are provided throughout the course to monitor student progress. The computer-based results are recorded and organized for easy access and reporting.

## FEATURING



POWERED BY  
**LearnMate**<sup>®</sup>  
FROM  
**intelitek** ▶▶

# Landscape Design Courseware – Featuring Pro-Landscape by Drafix

## Course Outline:

### **01 - Lesson One/Part 1: Introduction to Landscaping**

- Aesthetic vs Utilitarian
- Decoration/Appearance
- Expand Living Space
- Shade
- Resource Conservation (water, energy, food, soil)
- Food Production
- Security
- Privacy/Boundaries
- Shade
- Added Value

#### **- Vocabulary**

- aesthetic design
- utilitarian design
- terracing

#### **- Activities – Landscape Design Analysis**

- Acquire photographs of your school's exterior landscaping.
- Analyze your school's current landscape. Match your school's landscape characteristics with the objectives of landscaping.

### **- Lesson One/Part 2: Landscaping Styles Throughout History**

- Landscaping styles and origins
- Famous landscape architects and their works
- Landscape Architecture vs Landscape Design
- Irrigation, terracing, retaining walls, etc. (technologies of the time)
- Prehistoric Landscaping
- Hanging Gardens of Babylon
- Agricultural Terraces
- Roman Aqueducts
- Persian Gardens
- Hellenistic Gardens
- Middle Ages/Medieval Times
- European Renaissance
- Zen Gardens or Rock Gardens
- English Garden
- Abstract Modernism
- Formal vs Informal Landscaping

#### **- Career Videos**

- Civil Engineer
- Civil Engineering Technician
- Surveyor

### **02 - Lesson Two/Part 1: The Principles of Landscaping**

- Unity of design (theme)
- Emphasis – Creating focal points in the landscape
- Simplicity/Variety – Blending for a balanced and flowing design
- Line – Defining spaces, boundaries, etc.
- Form – Using various plant shapes to emphasize or de-emphasize features
- Texture – Contrasting and complimenting with various foliage textures
- Color – Using color to set mood, support theme, compliment surroundings
- Balance – Symmetrical/asymmetrical and formal/informal balance
- Scale – Setting the mood or emphasizing features using contrasting or complimentary scaling
- Sequence – Correctly sequencing colors, textures, scale

### **- Lesson Two/Part 2: Landscape Features**

- Softscape vs Hardscape
- Water
- Pavers
- Walls
- Irrigation
- Lighting
- Rocks and Boulders
- Structures
- Statues
- Plant Material

### **- Vocabulary**

- curvilinear
- rectilinear
- form
- field of view
- proportion
- symmetry
- unity
- feature
- hardscape
- softscape
- Asymmetrical Balance
- Sequencing
- Texture
- Line
- Scale

### **- Activities**

- Using Pro-Landscape Image Editor, open an existing image and experiment with various plants, trees, and ground cover based on landscaping principles.
- Make a list of plants that contrast in texture, size, or color.
- Using Pro-Landscape Image Editor, create examples of each design principle

### **- Career Videos**

- Landscape Architect
- Drafter

### **03 - Lesson Three :Softscapes - Varieties of Plant Material**

- Native
- Exotic
- Naturalized
- Classifying Plants
- Nomenclature
- Genus and Species
- Vascular/Non Vascular
- Flowering/Fern/Conifer
- Classifying by Appearance
- Woody and Herbaceous
- Evergreen and Deciduous
- Tree Forms
- Hardiness Zones
- Heat Zones
- Annual/Perennial/Biennial
- Flower Beds and Borders

#### **- Vocabulary**

- nomenclature
- cones
- microclimates
- drought

#### **- Activities**

- Using PRO Landscape to Design with Plant Material
- Setting Climate Zones
- Using Content Explorer
- Adding Columnar Evergreen Shrubs
- Adding Oval Broadleaf Evergreen Shrubs
- Adding Flowering Vines
- Adding Decorative Grass Using the Search Feature
- Adding Lights
- Adding Pavers
- Critical Thinking Activity

#### **- Career Videos**

- Nursery and Greenhouse Managers
- Nursery Workers
- Landscape Service and Groundskeeping Management
- Lawn Maintenance Workers
- Tree Trimmers and Pruners
- Pesticide Handlers, Sprayers, and Applicators

### **04 - Lesson Four/Part 1: The Science of Landscaping - Sites**

- Landscaping Sites
- Site Importance
- Natural and Cultural Landscapes

- Protected Lands and Species
- Natural Conditions
- Legal Restrictions
- Site History

**- Lesson Four/Part 2: The Science of Landscaping - Soil**

- Land Classifications
- Types of Soil
- Soil Texture
- Soil Structure
- Soil PH

**- Lesson Four/Part 3: The Science of Landscaping - Climate and Weather**

- Climate and Weather Overview
- Identify Climate Descriptions
- Climate Zones
- Bimodal Plants

**- Lesson Four/Part 4: The Science of Landscaping – Pests**

- Types of Pests
- Pest Control

**- Vocabulary**

- erosion
- zoning laws
- leachate
- loam
- climate
- pests
- pathogens
- viruses
- pesticides

**- Career Videos**

- Plant Scientist
- Soil Conservationist
- Hydrologist

**- Activities**

- Critical Thinking Activity

**05 - Lesson Five - Hardscapes – Fixed landscape features**

- Foundation and Structures
- Hardscapes
- Walkways

- Steps
- Features
- Drainage
- Walls
- Fences
- Ornamental Structures

**- Vocabulary**

- Berms
- follies

**- Activities**

- Critical Thinking Activity

**06 - Lesson Six – Plan Drawings**

- Drawing Tools
- T-Square
- Triangle
- Lettering Guide
- Compass
- CADD Systems
- Plan View
- Elevation View
- Perspective View
- Axonometric View
- Scale, Measurement, and Units
- Symbols

**Vocabulary**

- Scaled Plans

**- Activities**

- Create plan drawings using PRO Landscape Planner
- Critical Thinking Activity

**07 - Lesson Seven - Landscape Design – The Business**

- Contracts
- Prime Contractors and Subcontractors
- Cost and Price

**Vocabulary**

- Contract
- prime contractors
- subcontractors

- cost
- price

**Challenges:**

- Career Research
- Research Professional Organizations
- Interview a Professional Landscaper
- Challenge 4: Traditional Landscape Drawing
- Climate Map
- Planning with Local Plants
- Landscape Design Proposal