

Landscape, Design and Maintenance

18054

Rationale Statement:

Landscape Design is a growing industry. Careers may include landscape design, landscape installation and maintenance, commercial operator and nursery landscape business owner. In this course, students develop the necessary knowledge, skills, habits and attitudes for entry-level employment in areas such as landscape design, landscape construction and landscape maintenance. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Mathematics, biology, English and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises, field trips and internships. Opportunities for application of clinical and leadership skills are provided by participation in FFA activities, conferences, career development events and proficiency awards. Each student will be expected to complete a Supervised Agricultural Experience Program/Internship.

Suggested grade level: 9-12

Topics covered:

- Sketching and drawing
- Landscape design software
- Analyzing sites
- Designing for function and aesthetics
- Identifying and selecting plants and materials
- Purchasing and installing plants and materials
- Landscape maintenance
- Water requirements

Indicator #1: Develop an outdoor environment based on the elements of design.

Bloom's Taxonomy Level	Standard
Creating	<p>LDM1.1 Design a landscaping plan based on design elements and principles.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Conduct a site evaluation for physical condition and design implications. • Apply elements of design (line, form, texture, color). • Incorporate principles of design (space, scale, proportion, order). • Use landscape design drawing tools or industry-specific software. • Calculate total cost of a landscape plan (plants, labor and materials).
Applying	<p>LDM1.2 Choose materials and plants for a landscape design based on quality and stages of growth.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Select landscape plants for given plan. • Select landscape hard goods. • Identify landscaping plants. • Identify methods of weed control. • Identify water requirements for plants.

Indicator #2: Implement the fundamentals of plant design installation.

Bloom's Taxonomy Level	Standard
Applying	<p>LDM2.1 Install plant material according to a landscape design.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Read a landscape plan. • Prepare outdoor seedbed. • Describe methods of laying sod. • Evaluate and demonstrate planting practices.

Applying	<p>LDM2.2 Install material as assigned by a landscape design.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Apply soil mulches. • Install hard goods (edging, fabric and structures).
<p>Indicator #3: Use the fundamentals of plant care to maintain a landscaped area.</p>	
<p>Bloom's Taxonomy Level</p>	<p>Standard</p>
Applying	<p>LDM3.1 Apply plant management practices in a landscape maintenance plan.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Interpret environmental conditions to foster plant growth and development. • Maintain and operate gardening equipment. • Trim and prune hedges/shrubs. • Prune ornamental trees. • Control plant growth. • Maintain lawn/turf. • Develop pest management plans based on pest life cycles.
Applying	<p>LDM3.2 Appraise a landscape area for water requirements.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Identify water needs of plant families. • Report on the benefits of xeriscaping. • Illustrate an irrigation system. • Monitor irrigation system output.