



Department of Teaching & Learning
Parent/Student Course Information

Landscape Design and Management
(VO8040)

Three Credits, One Year
Grades 11 or 12

Counselors are available to assist parents and students with course selections and career planning. Parents may arrange to meet with the counselor by calling the school's guidance department.

COURSE DESCRIPTION

This course offers instruction in design techniques for landscaping and the drawing to scale of landscape plans. Students also study the use, growth, and proper care of plants, ground covers, trees and shrubs for landscaping, as well as turf management. Proper use of landscape tools and equipment is included.

CERTIFICATION

Virginia Registered Pesticide Technician Certification

National Occupational Competency Testing Institute (NOCTI) Assessment: Horticulture – Landscaping

STUDENT ORGANIZATION

SkillsUSA is a co-curricular organization for all students enrolled in trade and industrial education programs. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps students excel by providing educational programs, events and competitions that support career and technical education (CTE) in the nation's classrooms. Students are highly encouraged to participate.

PREREQUISITE

None

OPTIONS FOR NEXT COURSE

Turf Management

REQUIRED STUDENT TEXTBOOK

None

COMPETENCIES FOR LANDSCAPE DESIGN AND MANAGEMENT

Demonstrating Workplace Readiness Skills: Personal Qualities and People Skills

- 1 Demonstrate positive work ethic.
- 2 Demonstrate integrity.
- 3 Demonstrate teamwork skills.
- 4 Demonstrate self-representation skills.
- 5 Demonstrate diversity awareness.
- 6 Demonstrate conflict-resolution skills.
- 7 Demonstrate creativity and resourcefulness.

Demonstrating Workplace Readiness Skills: Professional Knowledge and Skills

- 8 Demonstrate effective speaking and listening skills.
- 9 Demonstrate effective reading and writing skills.
- 10 Demonstrate critical-thinking and problem-solving skills.
- 11 Demonstrate healthy behaviors and safety skills.
- 12 Demonstrate an understanding of workplace organizations, systems and climates.
- 13 Demonstrate lifelong-learning skills.
- 14 Demonstrate job-acquisition and advancement skills.
- 15 Demonstrate time-, task- and resource-management skills.
- 16 Demonstrate job-specific mathematics skills.
- 17 Demonstrate customer-service skills.

Demonstrating Workplace Readiness Skills: Technology Knowledge and Skills

- 18 Demonstrate proficiency with technologies common to a specific occupation.
- 19 Demonstrate information technology skills.
- 20 Demonstrate an understanding of Internet use and security issues.
- 21 Demonstrate telecommunications skills.

Examining All Aspects of an Industry

- 22 Examine aspects of planning within an industry/organization.
- 23 Examine aspects of management within an industry/organization.
- 24 Examine aspects of financial responsibility within an industry/organization.
- 25 Examine technical and production skills required of workers within an industry/organization.
- 26 Examine principles of technology that underlie an industry/organization.
- 27 Examine labor issues related to an industry/organization.
- 28 Examine community issues related to an industry/organization.
- 29 Examine health, safety and environmental issues related to an industry/organization.

Addressing Elements of Student Life

- 30 Identify the purposes and goals of the student organization.
- 31 Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.
- 32 Demonstrate leadership skills through participation in student organization activities, such as meetings, programs and projects.
- 33 Identify Internet safety issues and procedures for complying with acceptable use standards.

Gaining an Overview of the Landscaping Industry

- 34 Research the career pathways in the landscaping industry.
- 35 Describe the guidelines for personal protective equipment (PPE) in the landscaping industry.
- 36 Adhere to safe operation procedures for hand and power tools.

- 37 Identify opportunities in continuing education, training, licensure, and certification.
- 38 Develop a landscaping portfolio.

Exploring Leadership Skills and FFA Membership

- 39 Identify benefits and responsibilities of FFA membership.
- 40 Identify types and benefits of participation in supervised agricultural experiences (SAE).
- 41 Apply for an FFA award, based on an SAE (optional)

Designing the Landscape

- 42 Describe the landscape design process.
- 43 Establish a client's landscaping requirements, using a residential inventory survey.
- 44 Analyze the landscape site.
- 45 Draw a landscape design, using industry graphics and standards.
- 46 Identify landscape plants.
- 47 Relate the principles of art to landscape design.
- 48 Design the site for function and aesthetics.
- 49 Develop the landscape plan.
- 50 Select plants for the landscape.
- 51 Price the landscape plan.
- 52 Present the landscape plan.

Constructing the Landscape

- 53 Analyze trends in the landscape construction industry.
- 54 Demonstrate the use of landscape tools and related equipment.
- 55 Prepare the site for planting.
- 56 Purchase plants.
- 57 Install plant materials.

Maintaining the Landscape

- 58 Water landscapes.
 - 59 Fertilize landscape plantings.
 - 60 Mulch landscape plantings.
 - 61 Edge plant beds.
 - 62 Prune landscape plants.
 - 63 Maintain lawns.
 - 64 Manage pests, using Integrated Pest Management (IPM) strategies.
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- 90 Prepare a drawing of a gear.
 - 91 Prepare a drawing of a cam.
 - 92 Prepare a line drawing of a linked mechanism.
 - 93 Identify the difference between parametric and non-parametric CADD models.
 - 94 Create a 3-D model, using CADD.
 - 95 Document a 3-D CADD model design.
 - 96 Plot a documented 3-D CADD model.
 - 97 Prepare an exploded assembly drawing.
 - 98 Prepare a working drawing, to include assembly and detail drawings, of a multi-component mechanical device.

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For further information please call (757) 263-1070.

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CHARTING THE COURSE

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