Applied Science in Agriculture - 0136

Specific subject matter covered in this course includes current issues relevant to the agricultural industry, marketing and sales techniques. Disease and parasites effecting the various breeds of livestock; Animal welfare and relationship to the human environment; May include the horticultural practices of greenhouse management; fruit, nut and vegetable production; and landscaping principles; Forest fire prevention and techniques, public and private land forests; Wildlife mammals, waterfowl, freshwater fish, and game management.

Animal Systems

Managing Diseases and Parasites

Managing Animal Health

Identifying Equipment used to Maintain Good Animal Health

Determining Livestock Facility Needs

Managing Livestock Waste

Understanding Animal Welfare Issues

Training and Conditioning

Consumer Preferences

Horticulture

Identifying and Managing Plant Pests in the Greenhouse

Identifying and Managing Plant Pests in the Landscape

Understanding Hydroponics

Exploring Greenhouse Structures

Controlling the Greenhouse Climate

Using Automated Systems in the Greenhouse

Understanding Nursery Production Facilities

Producing Nursery Crops

Packaging Nursery Crops

Planning and Preparing a Vegetable Garden Site

Planning and Maintaining a Vegetable Garden

Growing and Maintaining Small Fruits

Growing and Maintaining Tree Fruits

Analyzing the Residential Landscape

Designing the Landscape Areas

Beginning the Design Process

Applying the Principles of Art to the Landscape

Using Annuals and Perennials

Choosing Plants for the Landscape

Putting the Plans on Paper

Pricing the Landscape Plan

Managing the Landscape Business

Environmental Resources

Understanding the Role of Fire in Forest Management

Harvesting Forest Trees

Examining Reforestation Practices

Applying Safe Practices in Forest Management

Identifying Forest Products and Uses

Processing Forest Products

Understanding the Characteristics of Wood

Exploring the History and Importance of Wildlife Conservation

Describing Species Endangerment

Identifying Problems Caused by Wildlife

Understanding the Food Chain and Natural Selection

Defining Wildlife Habitat and Recognizing its Importance