UNIT A: HORTICULTURAL SCIENCE

1. Exploring the Horticulture Industry
   Lesson 1 — Understanding Horticulture
   Lesson 2 — Determining the Importance of the Horticulture Industry
   Lesson 3 — Understanding Environmental Impacts of Horticulture
   Lesson 4 — Exploring Career Opportunities in Horticulture
   Lesson 5 — Practicing Horticulture Safety

2. Plant Anatomy and Physiology
   Lesson 1 — Classifying Ornamental Plants
   Lesson 2 — Understanding Root Anatomy
   Lesson 3 — Understanding Stem Anatomy
   Lesson 4 — Understanding Leaf Anatomy and Morphology
   Lesson 5 — Understanding Flower Anatomy
   Lesson 6 — Understanding Plant Physiology
   Lesson 7 — Understanding Light, Temperature, Air, and Water Effects on Plant Growth
   Lesson 8 — Understanding Plant Growth Regulators

3. Plant Propagation
   Lesson 1 — Understanding Sexual Reproduction
   Lesson 2 — Propagating Plants Sexually
   Lesson 3 — Propagating Plants by Cuttings
   Lesson 4 — Propagating Plants by Division, Separation, and Layering
   Lesson 5 — Propagating Plants by Grafting and Budding
   Lesson 6 — Propagating Plants by Tissue Culture
4. Growing Media, Nutrients, and Fertilizers
   Lesson 1 — Understanding Properties of Growing Media
   Lesson 2 — Understanding Growing Media Components
   Lesson 3 — Supplying Nutrients to Floriculture Crops
   Lesson 4 — Determining the Nature of Soil
   Lesson 5 — Understanding Soil Texture and Structure
   Lesson 6 — Explaining A Soil Profile
   Lesson 7 — Understanding Moisture Holding Capacity
   Lesson 8 — Understanding Soil Degradation
   Lesson 9 — Understanding Soil Erosion and Management Practices

5. Integrated Pest Management
   Lesson 1 — Understanding Integrated Pest Management
   Lesson 2 — Determining the Kinds of Pesticides
   Lesson 3 — Using Pesticides Safely
   Lesson 4 — Interpreting Pesticide Labels
   Lesson 5 — Applying Pesticides
   Lesson 6 — Managing Environmental Impact of Pesticides
   Lesson 7 — Identifying and Managing Plant Pests and Diseases in the Greenhouse
   Lesson 8 — Identifying and Managing Plant Pests and Diseases in the Landscape
   Lesson 9 — Identifying and Managing Plant Pests and Diseases in Fruits and Vegetables

6. Hydroponics
   Lesson 1 — Understanding Hydroponics (Types of Systems)

UNIT B: FLORICULTURE

1. Greenhouse Crop Production
   Lesson 1 — Exploring Greenhouse Structures
   Lesson 2 — Controlling the Greenhouse Climate
   Lesson 3 — Using Automated Systems in the Greenhouse
   Lesson 4 — Growing Poinsettias
   Lesson 5 — Growing Potted Chrysanthemums
   Lesson 6 — Growing Minor Potted Flowering Crops
Lesson 7 — Forcing Easter Lilies
Lesson 8 — Growing and Forcing Bulbs, Corms, and Tubers
Lesson 9 — Growing Foliage Plants
Lesson 10 — Growing Bedding Plants
Lesson 11 — Growing Potted Perennials
Lesson 12 — Managing the Greenhouse Business

2. Floral Design
Lesson 1 — Exploring the International Flower Market (Include U.S.)
Lesson 2 — Caring for Fresh Flowers and Foliage
Lesson 3 — Understanding the Principles of Floral Design
Lesson 4 — Understanding the Design Elements
Lesson 5 — Designing Corsages and Boutonnieres
Lesson 6 — Designing Basic Floral Work
Lesson 7 — Designing Centerpieces and Holiday Arrangements
Lesson 8 — Designing Wedding Pieces
Lesson 9 — Designing Sympathy Arrangements
Lesson 10 — Using Everlasting Flowers
Lesson 11 — Pricing Floral Design Work
Lesson 12 — Managing the Floral Shop

3. Interior Plantscaping
Lesson 1 — Installing Interior Plantscapes
Lesson 2 — Maintaining Interior Plantscapes

**Unit C. NURSERY, LANDSCAPING, AND GARDENING**

1. Nursery Production
Lesson 1 — Understanding Nursery Production Facilities
Lesson 2 — Producing Nursery Crops
Lesson 3 — Packaging Nursery Crops
Lesson 4 — Managing the Nursery Business
2. **Residential Landscape Design**
   - Lesson 1 — Analyzing the Residential Landscape
   - Lesson 2 — Designing the Landscape Areas
   - Lesson 3 — Beginning the Design Process
   - Lesson 4 — Applying the Principles of Art to the Landscape
   - Lesson 5 — Using Annuals and Perennials in the Landscape
   - Lesson 6 — Choosing Plants for the Landscape
   - Lesson 7 — Putting the Plan on Paper
   - Lesson 8 — Pricing the Landscape Plan
   - Lesson 9 — Managing the Landscape Business

3. **Landscape Installation**
   - Lesson 1 — Preparing the Landscape Site
   - Lesson 2 — Installing and Maintaining Irrigation Systems
   - Lesson 3 — Installing Woody Landscape Plants, Ground Covers, Perennials, and Annuals
   - Lesson 4 — Selecting and Establishing Turfgrass
   - Lesson 5 — Installing Patios, Walks, and Decks
   - Lesson 6 — Installing Fences and Walls
   - Lesson 7 — Incorporating Lights in the Landscape
   - Lesson 8 — Incorporating Water Features in the Landscape

4. **Landscape Maintenance**
   - Lesson 1 — Watering, Fertilizing, and Mulching Landscape Plants
   - Lesson 2 — Maintaining Turfgrass Areas
   - Lesson 3 — Pruning Landscape Plants
   - Lesson 4 — Pricing Landscape Maintenance Work

5. **Fruit and Vegetable Crop Production**
   - Lesson 1 — Planning and Preparing a Vegetable Garden Site
   - Lesson 2 — Planting and Maintaining a Vegetable Garden
   - Lesson 3 — Growing and Maintaining Small Fruits
   - Lesson 4 — Growing and Maintaining Tree Fruits

6. **Using and Maintaining Tools and Equipment**
   - Lesson 1 — Using Hand Tools
UNIT D: EMPLOYABILITY IN THE HORTICULTURE INDUSTRY

1. Developing Personal Skills
   Lesson 1 — Self-Understanding and Assessment
   Lesson 2 — Developing Human Relations Skills in the Workplace

2. Developing Communication Skills
   Lesson 1 — Introduction to Communication
   Lesson 2 — Understanding Effective Communication Techniques
   Lesson 3 — Identifying Effective Speaking Techniques
   Lesson 4 — Developing Listening Skills
   Lesson 5 — Organizing and Presenting a Persuasive Message
   Lesson 6 — Using Communication Skills in Appropriate Situations

3. Gaining Employment
   Lesson 1 — Developing Goals
   Lesson 2 — Obtaining Education for a Job
   Lesson 3 — Identifying Occupational Competencies
   Lesson 4 — Finding a Job
   Lesson 5 — Applying for a Job
   Lesson 6 — Writing a Resume and Letter of Application
   Lesson 7 — Succeeding in a Job Interview
   Lesson 8 — Understanding Conflicts and Their Resolution
UNIT E: HORTICULTURAL BUSINESS MANAGEMENT

1. Entrepreneurship in Horticulture
   Lesson 1 — Establishing the Horticulture Business
   Lesson 2 — Financial Management in the Horticulture Business

2. Marketing Horticulture Products
   Lesson 1 — Selecting a Marketing Approach
   Lesson 2 — Developing a Marketing Plan
   Lesson 3 — Advertising and Displaying Horticulture Products
   Lesson 4 — Marketing Floral Crops
   Lesson 5 — Marketing the Landscape Business
   Lesson 6 — Selling Floral Orders
   Lesson 7 — Selling Landscape Design and Construction Work

UNIT F: SUPERVISED EXPERIENCE IN HORTICULTURE

1. Determining Purposes and Procedures of SAE
   Lesson 1 — Determining the Benefits of an SAE
   Lesson 2 — Determining the Kinds of SAE

2. Planning and Developing SAE Programs
   Lesson 1 — Researching Possible SAE Programs
   Lesson 2 — Planning Your SAE Program
   Lesson 3 — Implementing SAE Programs

3. Expanding My SAE
   Lesson 1 — Keeping and Using SAE Records
   Lesson 2 — Making Long Range Plans for Expanding SAE Programs
UNIT G: DEVELOPING LEADERSHIP SKILLS IN HORTICULTURE

1. Understanding the History and Organization of FFA
   Lesson 1 — Exploring the History and Organization of FFA

2. Recognizing Opportunities in FFA
   Lesson 1 — Discovering Opportunities in the FFA
   Lesson 2 — Determining FFA Degrees, Awards, and CDEs

3. Developing Leadership Skills
   Lesson 1 — Understanding FFA Officer Duties and Responsibilities
   Lesson 2 — Planning and Organizing an FFA meeting

4. Participating in Community and Government Organizations
   Lesson 1 — Understanding Youth Clubs and Organizations
   Lesson 2 — Developing an Awareness for Your Community