

Virginia High School

Horticultural Production and Management

Course Description: This advanced course offers instruction in both the greenhouse production and landscape areas of horticulture. Units of study include plant identification, greenhouse management, growing greenhouse crops, landscape design, installation, and maintenance, horticulture mechanics, nursery management, and turf production. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

<p style="text-align: center;">Lesson</p> <p><small>AS- AgriScience (Central Core – Revised) HO- Horticulture Cluster AB- Agricultural Business Management</small> <small>AM- Agricultural Mechanics & Technology APS- Animal, Plant, & Soil Science ER- Environmental Resources</small></p>	<p style="text-align: center;">Hours/ Problem Area</p>
<p><i>Instruction in the FFA Organization is to take place at appropriate times throughout the year.</i></p> <p>Unit: B – Developing Leadership and Communication Skills</p> <p>Problem Area: 1 – Opportunities in FFA and Youth Organizations</p> <p>Lesson: AS B1-2 – Opportunities in the FFA</p> <p>Lesson: AS B1-3 – Achievement in FFA</p> <p>Lesson: AS B1-4 – Leading the FFA Chapter</p> <p>Problem Area: 3 – Developing Communication Skills</p> <p>Lesson: AS B3-4 – Effective Speaking Techniques</p> <p>Lesson: AS B3-8 – Written Communication</p>	<p>10</p>
<p><i>Instruction in SAE programs is to take place at appropriate times throughout the year.</i></p> <p>Unit: B – Developing Leadership and Communication Skills</p> <p>Problem Area: 1 – Understanding SAE's</p> <p>Lesson: AS B5-3 - Possible SAE Programs</p> <p>Lesson: AS B5-4 - Planning Your SAE Program</p> <p>Lesson: AS B5-5 - Implementing SAE Programs</p> <p>Lesson: AS B5-6 - Keeping and Using SAE Records</p> <p>Lesson: AS B5-7 - Long Range Plans for Expanding SAE Programs</p>	<p>10</p>
<p>Note – Content in lessons from the Horticulture Cluster Unit A Problem Areas 1 through 5 should be reviewed (or taught for the first time) prior to teaching the following lessons.</p>	<p>20</p>
<p>Unit: B – Floriculture</p> <p>Problem Area: 1 - Greenhouse Structures</p> <p>Lesson: HO B1-1 – Exploring Greenhouse Structures</p> <p>Lesson: HO B1-2 – Controlling the Greenhouse Climate</p> <p>Lesson: HO B1-3 – Using Automated Systems in the Greenhouse</p>	<p>5</p>
<p>Unit: B - Floriculture</p> <p>Problem Area: 2 - Greenhouse Crop Production</p> <p>Lesson: HO B2-1 – Growing Poinsettias</p> <p>Lesson: HO B2-2 – Growing Potted Chrysanthemums</p> <p>Lesson: HO B2-3 – Growing Minor Potted Flowering Crops</p> <p>Lesson: HO B2-4 - Forcing Easter Lilies</p> <p>Lesson: HO B2-5 - Growing and Forcing Bulbs, Corms, and Tubers</p> <p>Lesson: HO B2-6 – Growing Foliage Plants</p> <p>Lesson: HO B2-7 – Growing Bedding Plants</p>	<p>15</p>

Lesson: HO B2-8 – Growing Potted Perennials Lesson: HO B2-9 – Managing the Greenhouse Business	
Unit: C - Nursery, Landscaping and Gardening Problem Area: 4 – Interior Plantscaping Lesson: HO C4-1 – Installing Interior Plantscapes Lesson: HO C4-2 – Maintaining Interior Plantscapes	4
Unit: C - Nursery, Landscaping and Gardening Problem Area: 1 – Nursery Production Lesson: HO C1-1 - Understanding Nursery Production Facilities Lesson: HO C1-2 - Producing Nursery Crops Lesson: HO C1-3 - Packaging Nursery Crops Lesson: HO C1-4 - Managing the Nursery Business	8
Unit: C - Nursery, Landscaping and Gardening Problem Area: 2 - Residential Landscape Design Lesson: HO C2-1 - Analyzing the Residential Landscape Lesson: HO C2-2 - Designing the Landscape Areas Lesson: HO C2-3 - Beginning the Design Process Lesson: HO C2-4 - Applying the Principles of Art to the Landscape Lesson: HO C2-5 - Using Annuals and Perennials in the Landscape Lesson: HO C2-6 - Choosing Plants for the Landscape Lesson: HO C2-7 - Putting the Plan on Paper Lesson: HO C2-8 - Pricing the Landscape Plan Lesson: HO C2-9 - Managing the Landscape Business	18
Unit: C – Nursery, Landscaping and Gardening Problem Area: 7 – Using and Maintaining Tools and Equipment Lesson: HO C7-1 – Using Hand Tools Lesson: HO C7-2 – Using Power Tools and Small Landscape Maintenance Equipment Lesson: HO C7-3 – Identifying Large Landscape Maintenance Equipment Lesson: HO C7-4 – Maintaining Small Engines	10
Unit: C - Nursery, Landscaping and Gardening Problem Area: 3 - Landscape Installation Lesson: HO C3-1 - Preparing the Landscape Site Lesson: HO C3-2 - Installing and Maintaining Irrigation Systems Lesson: HO C3-3 - Installing Woody Landscape Plants, Ground Covers, Perennials, and Annuals Lesson: HO C3-4 - Installing Patios, Walks, and Decks Lesson: HO C3-5 - Installing Fences and Walls Lesson: HO C3-6 - Incorporating Lights in the Landscape Lesson: HO C3-7 - Incorporating Water Features in the Landscape	20
Unit: C - Nursery, Landscaping and Gardening Problem Area: 4 – Turfgrass Management Lesson: HO C4-1 – Identifying, Classifying, and Selecting Turfgrass Lesson: HO C4-2 – Establishing and Growing Turfgrass Lesson: HO C4-3 – Managing Turfgrass Lesson: HO C4-4 – Managing Pests in Turfgrass Lesson: HO C4-5 – Identifying Tools and Equipment Associated with Turfgrass Lesson: HO C4-6 – Managing Athletic Fields and Golf Courses	10
Unit: C - Nursery, Landscaping and Gardening Problem Area: 5 - Landscape Maintenance	6

Lesson: HO C5-1 - Watering, Fertilizing, and Mulching Landscape Plants Lesson: HO C5-2 - Pruning Landscape Plants Lesson: HO C5-3 - Pricing Landscape Maintenance Work	
Unit: A – Horticulture Science Problem Area: 6 - Hydroponics Lesson: HO A6-1 Understanding Hydroponics Lesson: HO A6-2 Growing Crops by Hydroponics	4
Unit: C - Nursery, Landscaping and Gardening Problem Area: 6 – Fruit and Vegetable Crop Production Lesson: HO C6-1 – Planning and Preparing a Vegetable Garden Site Lesson: HO C6-2 – Planting and Maintaining a Vegetable Garden Lesson: HO C6-3 – Producing Herbs and Vegetables Lesson: HO C6-4 – Growing and Maintaining Small Fruits Lesson: HO C6-5 – Producing Strawberries Lesson: HO C6-6 – Growing and Maintaining Tree Fruits	12
Unit: E - Horticultural Business Management Problem Area: 1 - Entrepreneurship in Horticulture Lesson: HO E1-1 - Establishing the Horticulture Business Lesson: HO E1-2 - Financial Management in the Horticulture Business	4
Unit: E - Horticultural Business Management Problem Area: 2 - Marketing Horticulture Products Lesson: HO E2-1 - Selecting a Marketing Approach Lesson: HO E2-2 - Developing a Marketing Plan Lesson: HO E2-3 - Advertising and Displaying Horticulture Products Lesson: HO E2-4 - Marketing Floral Crops Lesson: HO E2-5 – Marketing the Landscape Business Lesson: HO E2-6 - Selling Floral Orders Lesson: HO E2-7 – Selling Landscape Design and Construction Work	14
Total	180