

# HIGH SCHOOL CURRICULUM PROPOSAL

PROPOSED COURSE NAME: Landscaping and Turf Management

OLD COURSE NAME (if applicable): N/A

SUBMITTED BY: Sarah Timmons

Underline the Appropriate Item: New Course / Major Revision to an existing course

Implementation Date: Fall 2013

Person(s) who will write the Curriculum: Miss Timmons

Respond to the following:

Duration: 1 year

Open to: Junior and Seniors

Prerequisites: Introduction to Agriculture Education

Pass/Fail Option: No, traditional grading scale

Credit: 1

**If the course meets a graduation requirement, which one does meet?**

N/A

**Where does this course fit into department sequence?**

This course could be taken after Introduction to Agriculture at any point and time.

**What is the potential impact of this course on the other department offerings?**

This course may take students from other agriculture classes, but that is the case with all courses we currently offer.

## **Course Description**

This advanced course focuses on the landscape, nursery, and turf segments of the horticulture industry. Units of student include: identifying landscape plants, designing landscape plans, hardscape construction techniques, and installing landscape plants. Also included are nursery production, turfgrass production, small engine repair, and maintenance of existing landscapes. Agribusiness units will cover calculating prices for work, managing a horticulture business, advertising, and sales. Improving computer and workplace skills will be a focus. 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.

***Submit the Completed form to the Building Principal who will forward to the Superintendent***

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**Special Notes (i.e., extended periods, team teaching, etc.):** N/A

## **RATIONALE, OBJECTIVES, STRATEGIES**

### **1. Course Rationale**

#### **A) What is the evidence of student need for this course?**

This class would provide basic hands on experience. No matter what a student does with their future, knowing how to take care of plants and a lawn is important.

#### **B) What departmental needs/goals would this course meet?**

This class would increase enrollment in the department, giving students another option. Eventually this class may strengthen the community support to fund a greenhouse, which could become a fundraiser for North Boone FFA.

#### **C) What institutional needs/goals would this course meet?**

This course would be great publicity for our schools and campus. Students would be learning while giving back to their school by beautifying the area.

### **2. Course Objectives: What will each student learn and know?**

Please see the attached state approved course outline.

### **3. What types of instructional strategies will be used in the class?**

Students will have visual, audio, and hands on learning in this classroom.

### **4. What types of student assessment procedures will be used? How will the assessment be used to guide instruction?**

Assessment methods will include worksheets, tests, quizzes, and lab practicums.

### **5. List resources needed and approximate costs to implement this course. Include staff development, materials, textbooks, additional staff, equipment, technology resources, facilities, and fees.**

Resources needed would be the following tools: hoes, shovels, wheel barrel, stakes, flags, etc. Also various plants and soils will need to be purchased throughout the year. Lowes Home Improvement Stores have a grant which the Agriculture Department will be applying for to help cover these initial costs.

**Include any additional information pertinent to your course.**

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## Suggested Outline Landscaping and Turf Management

**Grade Level: 11 & 12**

**Length of Course: Year**

**Credit: 1 Unit**

**Course Description:** This advanced course focuses on the landscape, nursery, and turf segments of the horticulture industry. Units of student instruction include: identifying landscape plants, designing landscape plans, hardscape construction techniques, and installing landscape plants. Also included are nursery production, turfgrass production, small engine repair, and maintenance of existing landscapes. Agribusiness units will cover calculating prices for work, managing a horticulture business, advertising, and sales. Improving computer and workplace skills will be a focus. 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.

Lesson	Suggested Hours/ Problem Area
<small>AS- AgriScience (Central Core Revised)      HO- Horticulture Cluster      AB- Agricultural Business Management AM- Agricultural Mechanics &amp; Technology      APS- Animal, Plant, &amp; Soil Science      ER- Environmental Resources</small>	
<b><i>Instruction in the FFA Organization is to take place at appropriate times throughout the year.</i></b> <b>Unit: B – Developing Leadership and Communication Skills</b> <b>Problem Area: 1 – Opportunities in FFA and Youth Organizations</b> Lesson: AS B1-2 – Opportunities in the FFA Lesson: AS B1-3 – Achievement in FFA Lesson: AS B1-4 – Leading the FFA Chapter <b>Problem Area: 3 – Developing Communication Skills</b> Lesson: AS B3-4 – Effective Speaking Techniques Lesson: AS B3-8 – Written Communication	10
<b><i>Instruction in SAE programs is to take place at appropriate times throughout the year.</i></b> <b>Unit: B – Developing Leadership and Communication Skills</b> <b>Problem Area: 1 – Understanding SAE's</b> Lesson: AS B5-3 - Possible SAE Programs Lesson: AS B5-4 - Planning Your SAE Program Lesson: AS B5-5 - Implementing SAE Programs Lesson: AS B5-6 - Keeping and Using SAE Records Lesson: AS B5-7 - Long Range Plans for Expanding SAE Programs	10
<b>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.</b>	20
<b>Unit: C - Nursery, Landscaping and Gardening</b> <b>Problem Area: 1 – Nursery Production</b> 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	12

<p><b>Unit: C - Nursery, Landscaping and Gardening</b>  <b>Problem Area: 2 - Residential Landscape Design</b>  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</p>	<b>25</b>
<p><b>Unit: C - Nursery, Landscaping and Gardening</b>  <b>Problem Area: 7 - Using and Maintaining Tools and Equipment</b>  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</p>	<b>18</b>
<p><b>Unit: C - Nursery, Landscaping and Gardening</b>  <b>Problem Area: 3 - Landscape Installation</b>  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</p>	<b>30</b>
<p><b>Unit: C - Nursery, Landscaping and Gardening</b>  <b>Problem Area: 4 - Turfgrass Management</b>  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</p>	<b>20</b>
<p><b>Unit: C - Nursery, Landscaping and Gardening</b>  <b>Problem Area: 5 - Landscape Maintenance</b>  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</p>	<b>10</b>
<p><b>Unit: E - Horticultural Business Management</b>  <b>Problem Area: 1 - Entrepreneurship in Horticulture</b>  Lesson: HO E1-1 - Establishing the Horticulture Business  Lesson: HO E1-2 - Financial Management in the Horticulture Business</p>	<b>5</b>

<b>Unit: E - Horticultural Business Management</b> <b>Problem Area: 2 - Marketing Horticulture Products</b> Lesson: HO E2-1 - Selecting a Marketing Approach Lesson: HO E2-2 - Developing a Marketing Plan Lesson: HO E2-5 - Marketing the Landscape Business Lesson: HO E2-7 - Selling Landscape Design and Construction Work	<b>10</b>
Total	<b>180</b>

**\* This is a suggested outline of instruction. Teachers should use it as a guide in developing a course outline for their local situation. It is advised that a minimum of 60-70% of the lessons found in this outline appear in the outline developed for the local situation.**

**\*\*Although there are no Core lessons on plant identification, a significant amount of time, perhaps a minimum of 10 days, should be devoted to the correct identification of plant materials.**

